SEQUENCE LISTING

<110> Salceda, Susana
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      diaDexus, Inc.

<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

<130> DEX-0270

<150> 60/249,998
<151> 2000-11-20

<150> 60/252,563
<151> 2000-11-22

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aagtctctgc cctccagtga acttttttaag ggcaggagcc atctttgtaa gcccagcact    180

tgcctgggca ccagacacat gtagtatgtt ttcagtaatc gtggctgttc actagctgct    240

tgattgaaca ttatttgtgt gtaataatgt cattaaatta tgagaaaata aatacttagc    300

aattgaaaaa aaaaaaaaaa aaaaaaaaaa aggcgtgggg gaaaacgggg ccaagcgtgt    360

aacccgggtg gggaaaagtg ggtataccgc ggccccaaaa tgtcccccac ctcaccaata    420

gcgccagcca caaggagaga cggagcacac agccaacaat gagcagagca cgacaacag    480

aaaagagacc aaagcagaac acagacgaag gacccgacag caacaagaga gaccaccaga    540

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gagccgacac aagaccaggg tgcgacacca agagccagca cagcgagtga aacagaagcg    720

agaagcgaaa aaaaaggacg cagcagacgg cagctggaag gcggacgaga cggagactga    780

gacgcagcac ggcggcgcgc gcacgggccg cggagtaggg agaacacgag aaagagcaga    840

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ttggtcccca aaacccttc cagttgtgtt aacccactta ttttattggg gaaacaacca    180

aatattatta ttacaaattg ggtggggcgt ctaaaaaacg cccaattccc ccccaaggtc    240

taaacctctt ggtgacattg gggaattatt tatgcgcaaa tggaagagtt atttgggggt    300

gatcactcct aatgttaaac cagagcgaca gagatatacg catctagagg gcgaagaata    360

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aaatctttaa aatttttccc ggttttattt tcccccccc ccccaaaag cttttgggg      180

aaaaaaaaaa tttcagtcta aaaacacccc tggatttgtc ggtgggcgga tcaagagagg    240

tggacagaat tagtctgccc tcctctcaca acagacaact cctcgtgtgg ggtgtggtcc    300

tccctctcag agggagaggg gagtgggaag tgccgcctcc cacatattca cttgttgggt    360

gcaaggggac gagataaaaa aaaacggcgg ggcgggaaca ctcaggaggc gccatcatgc    420

gtgtgtccgc cgttgtgtgt gagaaaatgt ggtgtctacc gccgcgcgcc acaaatatct    480

cccacacaca aatatatcga gcgcaaacga acaacgggag gaggcggagc agccgacgaa    540

cacggagcag ggcaggtgag gaaaagcccg ggcaaacagg agacacagga agcaaccgaa    600

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cttgagccca ggagtttgag accagcctgg gcaacatggc aaaaccccat ctctacaaaa   180

aatacaaaaa gtaggccggg cacggtggtt cacacctgta atcccggcat tttgggaggc   240

cgagataggt ggatcacctg aagtcaggtg tttgagacca gcctggccaa catggtggaa   300

cccaatctct actaaaaata caaaaaaact agccggatat ggtggcgggt gcctgtaatc   360

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caacacaccg ggccttgntg ccttttttgct ttattacatt ggctacagta agctaaggtt   360

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9

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tgggtggggg cccgatctct accatagagg cggcggcaga gagacccccg ggggctccc      420

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gaacagaggt gggggacaa cacagtgggc ggcaaccaag gtgtgttcgc cgcgtggttg      540

gagaaaattg gtttcctccg ccctcaaata ttctccccaa aaatattgtg ctttaccata     600

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ttacgttatg tcacgcccca acaattagac aagtggtaag gccgaactcc tactacggta     240

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taatatcaac ggaatgagcg gttacgagat aatgcgttct tcggtcatga caggagcgta     360

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10

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ggcggtactc attgggtcat acgctggtgc tccttggtgt gcaagactct gttgatcgcg         360

cctcacatac ttccgacaca tacactaccg gaagccatcg ccatttccct cacaaatgag         420

tgacaagtag ggacgttctc tgagcggtca tacaagtggc tcgttcaggc ttgttcttcc         480

cgtgtggatt gcctatgcca tgggtgcaca tacgctggag tgcaatccat agctaaccca         540

ggtgattata cgacatttac ctgaaagtcc aacacagaag ccagcgacgt tagccagcta         600

ctataccctc gttgcgattc aagaaacgtc cgacctagac agactctacg agccgttaca         660

aataccgcaa tgcattagac caacgaacca aaaaagtaag cccatccaga aacatagaag         720

gagcctaacg acatcagaat gcgcgcgaac caagaaacac agagacgtcc aagacatacg         780

ctcgaaacaa aacaacgagc gatccagggg gggacacaat aagtatacca catgggcaag         840

aatcacacac tcaagtaccg aagcgctgaa aagccatctc caatagaggg ccacagaaac         900

accaaccgca atggaagccc gaatgccaac ggggaccaca gtctgtaccc cgttagaacg         960

gacaaaaaaa acgcacacta aaggaccaga actacggggg accagacgcc aggcggaatc        1020

actgcgcaaa gaacacccca acggaccctc ccaaatgcat ggcgcaaaac cgcgcggacc        1080

attgccaagg caagagaaca tgcgataagt aacagaaaca cccgcacaag accatgagac        1140

agaaacaagg gaatcacccc cgcccaaacc accacgttga ggaatcacca acgaataaac        1200

aacaacacac cgagcataga caagggaata acgagaaaca gcaaactagc aaaccactgg        1260

acacaagaga aagaatagca aaggccacaa ggaccgatga acacacacaa aaaagcagga        1320

acaacagaac aaacagaaac aaagcaacac atacagagga ggacagcagc ataaccgcac        1380

aagaccgaag gaggatgaaa acgagaaggt gagccactaa taggaagaaa gcacccgcaa        1440

g                                                                        1441


<210> 18
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<213>  Homo sapien

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aaaaaaagcc ccaaaaggga aattttgaac aaaataagga ctcccttccc ctccaaaaat       120

aaaaaatggg gggggttggt tggattgggg ggcaaccaat ttaaaactcg tgtttttccc       180

cctagggagg ttagggagaa gtatatttcc caattttccc caaacggggt gttatgaggt       240

aaagtcctgt gagaacgaaa ggggtgaggc ccttaaatct gtcatatatt ataaacgtga       300

tttcctctct acgagcggtg gtggattttt ggaatttcct tattctttgt ggtctttata       360

gcccccccata ttttatagag caccaaatgt agtgtgggct ccataattcc aacatagtta       420

cttggggtgt tactactaga agtgcacccc gtgataatcc actttctcca agataactcc       480

ccgtgaagcg tgggcggtta cacaggggct cactagcgtg ttcccgggtg gtgatcatgg       540

ttatccgcgt cacatttcca cacaaattag atgcgaaaaa c                          581


<210>  19
<211>  901
<212>  DNA
<213>  Homo sapien

<400>  19
atggcgtggg tgagcctgat gctatggtga ctactcaata atgcgtgcgt catgccgttc        60

cgtcggaact gataagtgac caggcaagca aataacatga aatcggacaa acagacgcgg       120

gtaataaggc ggatcattgc agtattgatg cgctctatcc gacttcctcg tctccacatg       180

acatcgacat gcagacttcg gatcgttacg tcttgacggt agacgccgag gtactcagac       240

tcacctccaa taggcgcgta aatacggttt atccacagta attcaggggga taacggcagg       300

gaaaagacac atgttgagcc aaatggcaca agggaaaact gtgcacggga caccgaaaa       360

aaaagcggcc gcgtttgttt aggtgttata tccaatatgt gctaccgaaa tcccactaaa       420

tgaagtatat tcacaaaaaa ttcgactgca tcaagagttc agaggatggg cgaaatccca       480

gaagagggac ataattaaag gaaaaaccat agctgtattc ccacatgtta aaactcacct       540

cgatgcgcat catcctggtt cctgaaccaa ttgctgatat acagggatac ctgattcggc       600

attttctacc ctttcgagca aagcgtgggg cactttctca tttgactcac gcctgtaggt       660

tattttcaac atacggatag ataggtcgta gcgcatccaa ggtagggttg tgtgcataaa       720

ccccccaggtt tagctcgaac gcatgcctat cggagactat ggattgagcc gcccgataag       780

cacactttag cccatgcgag agcactggta agattacagc aggagattaa agcagcgaaa       840
```

```
agagatctaa gtgtagacac taagatagta gaaaaaggta tggtatgagc cataaaacaa     900

a                                                                     901
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```
<210>  20
<211>  658
<212>  DNA
<213>  Homo sapien

<220>
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<223>  a, c, g or t


<220>
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<223>  a, c, g or t


<220>
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<223>  a, c, g or t


<220>
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<223>  a, c, g or t


<220>
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<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (204)..(204)
<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (209)..(210)
<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (216)..(216)
<223>  a, c, g or t
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<223> a, c, g or t


<220>
<221> misc_feature
<222> (234)..(234)
<223> a, c, g or t


<220>
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<222> (260)..(260)
<223> a, c, g or t


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<222> (270)..(270)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (274)..(276)
<223> a, c, g or t


<220>
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<222> (285)..(285)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (294)..(295)
<223> a, c, g or t


<220>
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<222> (300)..(300)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (302)..(302)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (304)..(305)
<223> a, c, g or t
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15

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<222> (310)..(311)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (316)..(316)
<223> a, c, g or t


<220>
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<222> (318)..(319)
<223> a, c, g or t


<220>
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<222> (324)..(325)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (331)..(332)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (336)..(337)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (460)..(462)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (492)..(493)
<223> a, c, g or t


<220>
<221> misc_feature
<222> (521)..(522)
<223> a, c, g or t


<400> 20
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gatatccaca gcatacacac catgacccag atgagcagct catgcgccag ttggcacctt     120
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ccntgcgnag atcacaagta gagtgacacg tggcacgtgg cttagcacga agagtgtact    180

gcnntccagc atagacncnt gtgnatgcnn taccantgcg natgggtctt actntggcct    240

tccccctttt cttccacagn actacagagn tgtnnnccct gtagngcgtc tccnnctcgn    300

gnannacagn ntgccntnnc aaanntcctg nnaccnncaa tgggacccag cccatggcgc    360

gacacgacga ctgggttggc acggccacaa actgccacct ttactacgac gactttcct    420

tattggcctg gcgaacgcgc tgtgtttcct cccccacaan nntttgtttc gtcgacatac    480

ttccaccctc gnnttttaat agacatggtc tcgaacctcg nntcttgacc caaaaacaaa    540

acaacacaca aaacaaacaa acggcttggg cgcgtaatcc ggtgggccaa agcggggtcc    600

ccgtggggga cattgggtaa ccgggtccaa aattcccaca aaattcgcgg acaaagtg     658
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<210>   21
<211>   969
<212>   DNA
<213>   Homo sapien

<220>
<221>   misc_feature
<222>   (447)..(447)
<223>   a, c, g or t
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<400>   21
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cctggacatc tgacgtactg ccgtgggttg atgcactccg cagcggacga aggagctgca    120

gtcgaaggcg gctcgcaaga agtcttgaag agggctcaag agtaaccgtt gttcccactc    180

tatgcagaag aagtatggcc aagtcctcca tgtgtgatcg ccggttgcag cacggtgtgc    240

atgatgatgg aaatggggca acggagtcgg gaatgcgtgg tgtgacatgg tccccggagg    300

aaccgtcctg gcaagtatcc gtctcctcgc tggaagctgt cttagtgaag tggggcgatc    360

gcatttgctc cgtccactag cattctccca gtcgcacatc tagcgtgtgt ccaccatgca    420

gtgagccatg cggcctgttg ccatccnctt gagacgttgg gggctgtaac gtcagagcag    480

gattaagacg gttctctcaa cttgttgcgc gtcctggata tgtggacaca ggggtgctac    540

ctttgtccct aggccttgtc ttcaaaagaa agtaaaaagg aaacaagcat ttgagggatc    600

gtttaacaac agagagaaac agacagaaga atgagaacac ataagacaag tccctctgga    660

ggcgacaacc tcagcggggg gccaggagag gctgtgggga cccccgggt gtgtgagaca    720

atgtgggtgg ggagcacctc gcgggtgctc cttcaccaag aagaatttcc acccgccacc    780

agcgaacata atcaggcgac cagaagagaa agacaaaaaa agcgaggcca gagtaacagt    840
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cgagaccgag cgacgaaggc gggggcacgc aggagcacat gggaggagat tggcaggacg     900

aggagaagac caagaaaagg ccaaccgaat aaatagccgc tccagagggg aggcagaaaa     960

gggggggaaa                                                            969
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<210>  22
<211>  709
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
<222>  (243)..(243)
<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (617)..(617)
<223>  a, c, g or t


<400>  22
tttttttttt tttttttttt tttttttttt tttttccccg tggtttaaaa actttaattt      60

tttttgggct tttacaaaaa tttttaaaac attttaaaaa aaccccccccc ttccccatt     120

tccggttccc cgggcggggg gtaaaagggg gacaagggtt ttttcaccgg ttgtggcctt     180

cggggtttgg gagggcttta aaaccaccca ctctccgcca aacaatcttt gtgcgacgtt     240

ttnctatatc ttgtgtgttt aacaataaca acgagagtaa tatctccccc tcgtgtagtg     300

tcgcaacacc cgtggctcca cgccacttct ctctccaaca acacgtgctt gggggtgtgt     360

acccgcgagg cggctcaaga gcgcgtggtc gccgctggga gtgggaacaa gttgggtctc     420

atctagcgcg cctcacacaa tctcccccac caaccaatca tctcgacgag accacacagc     480

cggcgtgctg cagccagacc acgcgaaagt ccagagaaag atgcaagacc aagcacgaac     540

gaataaagag caacagacaa ggaccaaacg cagcgaacaa gcaagctagc aagacgacca     600

agcagcacag aaccagnaga gcaccaacaa gcaagacaga caaacgcaag ccagcaggag     660

acacaaacgc aaagcaaaca caacagaaca acctaagata cgcaagtag                 709
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<210>  23
<211>  402
<212>  DNA
<213>  Homo sapien

<400>  23
gaaggggtgt agtgtaaaga acaaagctaa tattataata ttcaattttt gtgaaggaag      60
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tatgaatgaa atagtagtca tatccttcat aatgaagggg cagtgattag ttacaatgag    120

aagattgatg attatcttga tcaaaatgaa atgataaatat tgataatgta aaatatgtct    180

ttatctttgc gtgtcattgt gttaaggtgt gtattctatt tgtcatggaa ttcttaattc    240

aaatacatgt tctatataaa gagtatgctc ctattggatg aaaaaaacct aaaaaaacaa    300

aaaaaaaaaa aaaaaaaaaa aaaaaggttg ggggaactgg gcaaaggtgc cccggggggga    360

attggttatc ggtcaaaatc cacaaaaaat aggaggaaag tg                       402
```

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<210>   24
<211>   1441
<212>   DNA
<213>   Homo sapien

<220>
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<222>   (155)..(155)
<223>   a, c, g or t


<220>
<221>   misc_feature
<222>   (247)..(247)
<223>   a, c, g or t


<220>
<221>   misc_feature
<222>   (394)..(394)
<223>   a, c, g or t


<220>
<221>   misc_feature
<222>   (533)..(533)
<223>   a, c, g or t


<400>   24
gagcggccgc cgggcaggtt tttttttttt ttttttttaat tggatcaaaa ttcaggggtt    60

aattatggag caaggaaaag cggctaaaac ttaatcccaa gcctgtgtgt gttagtttaa    120

gagttgtgca agaggtgggc atagtgggtc tcacnaaaac acatctcaga gtggttttaa    180

accacatatt tattgtgaag aaacaaaatt atatttaaaa tgtgtggtgt ggcgctctct    240

ataaaanagg cccatattct ccctctccaa ggtctctata aaccttgtgt ggtaattgtg    300

tgatatatta taagcgacac atgtgagagg tttatattgt gtgcgttacc aatctcatat    360

gtgttaaaac aagcgcagag aaatatagac gcanctataa gggcgagaga aatatataac    420

aatatgtgtg gcgcacagag agcggttatg tgtgcacata ttctctcaca cagagatata    480
```

```
gcgacattct ctcttatata aaattctcac gggtattcta cagcgctctc tcnacacaag    540

agatgatgtg gggtgtgcgc cgccataata tatatgagag acacttccta taacacatat    600

atatatatga tgggtgatgc gcgcgtaata caaacaaaaa aatataataa tatatataac    660

acggaaacac atgatgtgtg ctacacaaag aggaggggag atgatgtgtt gtagatgtgc    720

cacacaactg tctctcatat actctctctt tatacaaaga gaggtgtggg agagagatgc    780

tacaaggagg gtgatgagct gtaaaacgaa cgcgcaaaat atatatacat gatgggtgag    840

ggagtgcatc cttatatttt tctctccata aaatattccc ccggttgttt actaattcac    900

tattctcaca tattccgggg ggcgtctcct ctgggagata tatgcgcccc ttataggggg    960

ggtgctcacc cccccatttt tattacaggt gttctacaag aagggggggt tctggggtac   1020

aatctgggcc ccacctggtg gggggggggg cggaactctt gtggaaccac atcttggggc   1080

gcccccaaa ttttatttta tcccccctcg ttggggttgc cattttttcc cccttttttc   1140

tgccacaaac tggtgcgcgg gggggtgggg ggagacaatc ttttccccag aaaacaacag   1200

ggggggtgag gggcgtttgg acgaggaaaa cacaaaacaa caattcctcc ccaaattccg   1260

aaaaaacctc ctcttctcga ggggggggctc gaggagggtc ccgaggaata tgttggggcc   1320

aacaccacga gtggattaca cacatggttt ccccccccccg ggggagaagg ggggggggca   1380

ctttctcaca aaatacagag ggggggtacgg ggggggcgaa ccaaggggga gttaatactc   1440

g                                                                   1441


<210>   25
<211>   854
<212>   DNA
<213>   Homo sapien

<400>   25
cgtggtcgcg gcgaggtccc cccccttttt ttttttttttt ttttttttttt ttttttttttt    60

ttttttttttt ttttaaaaag aaaaaacggg ggagggggggg gggggggggg gggggagcga   120

tgaagaaggg gggcgaaggg gagaccagac agcggggggg ctcgtcccgc ggcgcgagcg   180

agggaggtta tcgtgagctg cgtaggagag gggtggggggg cgggccaccc ccgggggtgg   240

ggggagaaac tagtcagcag cggggtacat tagcggggggc gtcaacagta cagtagggcg   300

gccgccccccg tagaagcagc ggcgacggag tatatctgta tgcacagcga ggcagaacag   360

gcgtggcatc acacaccaca caagagagag agagtctccc ccaccgaggt gagataaaag   420

agaggggggag gatgtaggag ggaggatcca cagccgggat ggcgtagcaa gacatactcc   480

accacaaaac atccttcgga ggtggcgagc aaccacgccg taaggaagag cctctactct   540
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20

```
cgaagaaaga gagagacaat ccagatagaa ccgcagcaga gggagagagc gaggccacct.   600

cccacaagaa aaaagaaga gagcaagcga caagcgggca aacaacgcaa accacaaggg    660

tgagaagaaa tatataccaa cccgggtggg aaaaaacaat tagcaaacaa actgcactac   720

tgcccacgat aaaaaaactg gctggcgaga caccaagcgc gtgcaacaaa agctagtata   780

cccggcgggg gggaacaaag cagtacgacg ccgcacacaa ataccccccc caacaacaac   840

ttaacagcaa aaga                                                    854
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<210>   26
<211>   1672
<212>   DNA
<213>   Homo sapien

<220>
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<222>   (568)..(568)
<223>   a, c, g or t


<220>
<221>   misc_feature
<222>   (1050)..(1050)
<223>   a, c, g or t


<220>
<221>   misc_feature
<222>   (1364)..(1364)
<223>   a, c, g or t


<400>   26
ccgcccgggc aggtccccccc ccttttttttt ttttttttttt ttttttttttg aagaaatttt   60

tggatcaaaa aggggggccct taaaattccc ggggggggccg tgatttccct atatttaagc   120

gtggggggaa aaaaaaatct caaatttac gcgtgattaa ttggttagtg tgcctccaaa   180

tgtgaattct agtgtgaccc ctctctgtgt tcacaatata aatatagaag agagcctata   240

atatattctc tcaaaacaca atatagagaa actctgctgt gcgcccacaa aacacacact   300

gtgtgtggtg tcgtctttat cacttgtgtg tgaactgtga gtctctcacc ccaagagaag   360

agagagtgtg ttactaagag gtgtgataaa gtagtttgtg tgagagttat agagtgtctc   420

tctctccaca aatatatatg actctctctg tgtgtgttat acaaaacatc tctctcttct   480

ctctctatat atgatgtgtg tatatatata tgatgagagt gtatatgatg tgtgtctacc   540

gatgtgtctc attctattat tataaaanca ctcctttata tatagaagaa tttctatatc   600

tatatatctc tcactctctc tatatctctc tctctacagt gtgtggcgga cacatatatc   660
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```
tataacatat gatgtgtggg gggcgcgtgt gtagtaacaa tatatatata ttctatgtgt.    720

gtgtctctct catcactgtg tgtgtgtctc gtgtgacaca aagagtgtgt gtgtacacag    780

tgtgtgtata tcaccctctg cgagcgttta tctcaccaca tatctctgtg tggggggacac    840

cctctgtgag agagaccact cttatgagag ggggaggcgt cccttatatc tcctcttatt    900

cacagcagag agagaagagt cctcgagagg ggggcgcaaa ttgttgtaga ggggggggagg    960

acacccccc ttattttct tctgttctat actttgctcc cccctctctg atgagaaaaa   1020

atacgccgcc gtggggtgtg gcaacagccn ccctgttgtt gtgggaaaac atctcacacc   1080

acgagaggat ggtttttcc gccgaggtct tttcctcaca caacaaatac aaaagtaaat   1140

aaacaccaca agcacgagac gacaaaaaaa cacatcaaac acaccaaata caaaaaaaca   1200

aaaaaagag ccgccggcgg ggggggggga gggaaacaca acaaagccag ggggggggaac   1260

acaaaaaaga cgaggagtta accaccagcg gagggagagg tacaaaccaa agagggttgg   1320

tgtatcaacc cgcggcgcgc gacaacaaaa aaattcccac ccanacaaca gatattcatt   1380

tatgtcatca tccgtcatca caacttatac gtaaatacag atgctcataa actaatttga   1440

ttactaaaat ccactaaaag attatcaatg acttagaact aaagtaaata cgatactcat   1500

gaattatcta attcttatat acaactcaca ctacagctaa catatataca ctactacaca   1560

tcacacaact aaagcaaata ctctaacatc gttcacccaa caacaacaac agtaaccaaa   1620

taactgctac atattacata tatatcattc catatattct tgaatacaca aa           1672
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```
<210>   27
<211>   698
<212>   DNA
<213>   Homo sapien

<400>   27
gcggccgccc gggcatggtc cccctttttt tttttttttt tttttttttt tttttttttt     60

tttaaaaaat gcttttttttt tttcttttgg ggggtgggg ccccccggggg ggggggggcc   120

ccaggagaag gaggtgggcc ctgggagaaa ttaattaaaa aaaagtactg tgaaaagaaa    180

agggtgggtg gtgttaaagt cgcatggccc aaggtggcgc tccctaagcg ctacgcgttc    240

tcatgagaga aggtgaaaaa cctctttgat agaaaagaga tctcatgtga gaaaacgcca    300

tatagcttgt gggcccacc atatctagac atattataaa aaaatctcgc tttgaaaaac    360

acactctata gcgtgtaacc accactcgcg tgtggtgggg tgtctccgag atttctctct    420

actacaacta gagagcgcgg acacagagtg taaacaccac gagtgggtct ccccttgggg    480

tgctccatgg tgtgaaaaaa gagagcacac atataagatc tcgcgtgtat atctcacaaa    540
```

```
taaaaaagtc cttggtgggc gataaacctc cgagggcaca caaaaagagt gtgttctccc        600

gccgtgtgtg tgaaaaaagt gtgtatatcc cccgcgccca cacaaaattc tccacacaaa        660

aaatattttg gccgaaacaa aaaattggtg taacaaaa                                698
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```
<210>  28
<211>  393
<212>  DNA
<213>  Homo sapien

<400>  28
accagaagga accctccagt cctgctctct ggccacacct gtgcaggcag ctgagaggca         60

gcgtgcagcc ctactgtccc ttactggggc agcagagggc ttcggaggca gaagtgaggc        120

ctggggtttt ggggggaaag gtcagctcag tgctgttcca ccttttaggg aggttactga        180

ggggaccagg atgggagaat gaggagtaaa atgctcacgg caaagtcagc agcactggta        240

agccaagact gagaaataca aggttgcttg tctgacccca atctgcttga aacctgactc        300

tgcttctctc atttgtcttc ctaccctact cacataattc actcattgac tcactcattc        360

accagatatt tattgacctg ctattataag ctt                                     393
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```
<210>  29
<211>  3470
<212>  DNA
<213>  Homo sapien

<400>  29
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ggcttgctca aagcccggca ggagaggagg ctggccgaga tcaaccggga gtttctgtgt        180

gaccagaagt acagtgatga agagaacctt ccagaaaagc tcacagcctt caaagagaag        240

tacatggagt ttgacctgaa caatgaaggc gagattgacc tgatgtcttt aaagaggatg        300

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acaggagggg tcagtgacac tatatcctac cgagactttg tgaacatgat gctggggaaa        420

cggtcggctg tcctcaagtt agtcatgatg tttgaaggaa aagccaacga gagcagcccc        480

aagccagttg gcccccctcc agagagagac attgctagcc tgccctgagg accccgcctg        540

gactccccag ccttcccacc ccatacctcc ctcccgatct tgctgccctt cttgacacac        600

tgtgatctct ctctctctca tttgtttggt cattgagggt ttgtttgtgt tttcatcaat        660

gtctttgtaa agcacaaatt atctgcctta aaggggctct gggtcgggga atcctgagcc        720

ttgggtcccc tccctctctt cttccctcct tccccgctcc ctgtgcagaa gggctgatat        780
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23

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caaaccaaaa actagagggg gcagggccag ggcagggagg cttccagcct gtgttccct      840

cacttggagg aaccagcact ctccatcctt tcagaaagtc tccaagccaa gttcaggctc,    900

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ggctgcaggg cctctttcgg gtttccttgg acagtgccat ggttccagtg ctctggtgtc   1020

acccaggaca cagccactcg gggccccgct gccccagctg atccccactc attccacacc    1080

tcttctcatc ctcagtgatg tgaaggtggg aaggaaagga gcttggcatt gggagccctt    1140

caagaaggta ccagaaggaa ccctccagtc ctgctctctg gccacacctg tgcaggcagc    1200

tgagaggcag cgtgcagccc tactgtccct tactggggca gcagagggct tcggaggtag    1260

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ggatactgag gggaccagga tgggagaatg aggagtaaaa tgctcacggc aaagtcagca   1380

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caggaagatg tcaaagtcag ccccatcttg gctgatcagg gtgttcagcc ttaaccccac    2100

ctgtgttctg aagtctctta ccctacctgc tcaggactga gacagttatt cactgaacat   2160

atttattaag cacttgctgt aggccaacag ttaagaatcc aataatgaaa tggacagatt    2220

catggaactt agagtccaat aggaaagtga gacccagaca atgacaatga gataaatgtt    2280

aggaaggggg aggtatgggg tgacttccct gcagtcctgg gggcctagat gggcccaaga    2340

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tggtggttgg agccaacgtg ggttccctgc ggctccttag tcacctctga tagcagattg    2460

agggaggaaa acaggtaagg catgaggaaa tggccaggtt gggttaaccc actggtttca    2520
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accagttcag gaatgaggtt atttggccat gactggctga tcttgagctc aaggatctgc   2580

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tggaaaatcc tacttctacc cccaccctgc cctgttttt gtttttttt tccccaagat    2700

cattagatgt cctcacccct cctcactgcc tctcctctct gggacaggct gggacctttg   2760

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gaggaaggca gaaccagtca ggcttatttc agtaagttcc acagttctac aagactgcag   2880

gaattctcct taagggagga gagcaagcag gtgtggcccc agcttctgga aatggcagaa   2940

gagagggttt tctcattgaa tggggtgggg ggctcgtgtg tcctgggaaa ccccatcagt   3000

cccttcattt cttgagactc aactcctggg aggagagggt ctcaagagtt gtccctggaa   3060

ggagggcggg ggcagtctgc atctatttca ggttgtggct cttggttcta ggactcttac   3120

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tctaatgtaa ccagtaacgt gaggactgcc aagtatggct ttgtccctat gactcagagg   3240

agggtttgtc gggcaaattc aggtggatga agtatgtgtg tgcgtgtgca tgggagtgtg   3300

cgtggactgg gatatcatct ctacagcctg caaataaacc agacaaactt accaacgtct   3360

tgattggtgt attttggggc tggttctggg ctcagcaaat tgcgaactag ctaatatagt   3420

aagagattaa aaaaaaaaaa aaaaaaaaa aaaaaaaaat tgcgtcggcc               3470
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<210> 30
<211> 484
<212> DNA
<213> Homo sapien

<400> 30
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cactctgata tgtagctttt ctatcatctc tgtaacttag cttcaagtaa ctagaagagt     180

aatctaaaaa aaataattag cctttaatca gattgcctgc agtgtttctt ggtcacttta     240

aagctgtgac tttgcatgat tgctaggtaa gttcacttaa gaaataggaa attcaaatta     300

tttatgtttc aagtatttt gaacaggtgg taaaatgaaa ttgatttta tcatctttga      360

atgaaagtaa cagcagatat tcaatgagtg acttattttg tggacatttt tgtcctttgg     420

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catc                                                                   484
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<210> 31

<211> 1299
<212> DNA
<213> Homo sapien

<400> 31

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ctacttagat atttctttag aagttcctta ttgagggtaa tgatgttttt aaagaacata       120

gaacattctt tatgttttaa aagaatcatg ccttcattaa gtaggcttta ttctaagttt       180

ggaactgaga ctgttatgct tttaaagtct ccaacagaga ggttaaggag ttaacctggg       240

gcatgccaga actgggatgg aatggccttg aaagatttta gtgcattgca cttgacttag       300

ataggatctt tactgaccct tgcttactta ggagtggcag agttaattgg tggttcagat       360

attaaggggc tactgtcact ctgatatgta gcttttctat catctctgta acttagcttc       420

aagtaactag aagagtaatc taaaaaaaat aattagcctt taatcagatt gcctgcagtg       480

tttcttggtc actttaaagc cgtgactttg catgattgct aggtaagttc acttaagaaa       540

taggaaattc aaattattta tgtttcaagt attttttgaac aggtggtaaa atgaaattga       600

tttttatcat ctttgaatga aagtaacagc agatattcaa tgagtgactt attttgtgga       660

cattttgtc ctttggatat gatgtataga gtcacaatat attttcagcc ttttttgaga       720

aataagtgat ttagacatct tacacagtta ctgagcacct ggtacagtga agatctctca       780

agaatgattt gtgtgatgta gttcggtgga tcatccagca gagggcagta gagccagagc       840

catagtaaaa gttatagtaa agttgctctt agcaacttga gtcttactta gatttaattt       900

tgcatagaac caaaagttca gtttagtagc cattttcttt aaagtcaggc tgtagtggtt       960

ccgaaatgaa aattaggccc tgattttatg taagatgatg tccaatcttt aattgacacc      1020

ttaaaaatat taaaagatta tgataggatc aggaaggagt ttttgaaaat gcaatttgta      1080

gttttaaca agtgatgtag aataaataaa aagaagtact ttttaaaaag taagtataaa      1140

attattttcc agttaactat gggatataaa tgattgcttt aatacaggta ttcctaacct      1200

gtacagcatt tcctaacctg ctctgtgaaa aacaaagaaa taaaacttag tgctctcttt      1260

aaaaaaaaaa aaaaaaaaaa aaaaaattt ggtgcggcc                            1299
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<210> 32
<211> 771
<212> DNA
<213> Homo sapien

<400> 32

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ctgctccaag tctggctgtg tccaggcggt ccatgttgaa aatggaggat ggctgctgac       120
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ttctgactgg  ctgagcagtg  ggttccttca  ggttccttgg  ccaaccctcc  tcccctgccc      180

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tacctaacgc  ccaagaaaac  caactaagga  ctctcaaacc  atacctggtg  ggggttcttc      360

gctcaacctc  ttcttcccta  ggtcaaagcc  actatcatct  gatgtgttag  ggatgggttc      420

tgattggcag  aaattaatca  gctcccaatg  ggagcccacg  gaactaagta  gggtcccaag      480

aaaaaaaacg  ggagctattt  cacagagctg  agcttctgcc  aaatttcatt  cctcaaacct      540

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taactgacta  ctttgataac  aatgtcagat  tttaactata  aaacgacatt  ccttgtgcat      660

ttttatattg  attcctattt  tttttagat   taacgttaaa  tgtttcccct  agtcttcctt      720

ctactgtata  gagcttggta  tcatgtcata  cgttccgtgt  gaatgttcgt  c               771
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<211>   4908
<212>   DNA
<213>   Homo sapien

<400>   33
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ggccggcaga  gcgacgcgga  accccgccgg  cgcggacccc  ggaccccaac  gccgcccgcc      180

cagccgcgga  cgcccctgcc  cggagccctc  gccgcccggg  ccgccctcga  gggccgggag      240

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gacctgaaag  cccagcccct  cctgctgccg  ctgctgccgc  caccacgcag  ggtagccgca      360

gaggcccagg  aatcttggca  ggcgtgggga  ggcagcgggt  ggcgggtggc  gctccggaaa      420

aggctgcaaa  tgcgaaccag  aagcacgtcc  acggacgcca  tgctggggac  tctgacaccc      480

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gcagaaagga  cctgtgggac  cgcccttccg  tgagggcaaa  ggccagtacc  tggaaatgcc      660

tctaccgctg  ctgccgatgg  acctgaaggg  agagcccggc  ccccctggga  agcccgggcc      720

tcggggtccc  cctggccccc  ctggcttccc  aggaaaacca  ggcatgggaa  agccaggact      780

ccatgggcag  cctggccctg  ctgggccccc  tggcttctcc  cggatgggca  aggctggtcc      840

cccagggctc  cctggcaagg  tcgggccacc  agggcagccg  gggcttcggg  gggagccagg      900
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aatacgaggg gaccagggcc tccggggacc cccaggaccc cctggcctcc cggccccctc   960

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gggggaacca gggccccagg gggagcctgg gccccaggt gatcgaggcc tcaagggga   1080

taatggagtg ggccagcccg ggctgcctgg ggccccaggg cagggggtg cccccggccc   1140

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cccaggagac aagggtgagt ctgggcctcc tggagttcca ggccccaggg gggagccagg   1260

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gcttcctggc agacgtgggc cccctgggcc taagggtgag gcagggcctg gaggaccccc   1620

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ctacgatgag tacaagaagg ctacctgga ccaggcatct ggtggggccg tgctccagct   2460

gcggcccaac gaccaggtct gggtgcagat gccgtcggac caggccaacg gcctctactc   2520

cacggagtac atccactcct cctttttcagg attcttgctc tgccccacat aacccgcggg   2580

gggtgtcctg ctgccctggc ctcctccct ttagtggtag agcgaccttt tcaattacaa   2640
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28

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agaacctcct ggaaaaaaaa acaaaagctg aacagaggcg gccgtggcct tggcccgagg   2700

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cccaatggga gcccacggaa ctaagtaggg tcccaagaaa aaaaacggga gctatttcac   4500

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ctaaaatgtt tatgggattt gagttgcagg tgtccactta actgactagc tttgataaac   4620

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ttttttttta agattaaagt ttaaatgttt tccactagtc atttcacttc taacttggta   4740

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aatgcacttg ggaatcaaag aaaatggaac ttctttttga aaagacaagc aaccatgtta   4860

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<210> 34
<211> 251
<212> DNA
<213> Homo sapien

<400> 34
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cataattttc aagggatctt catgggttgt gactggaagc tgaccttagt cttgcgtctc    180

atcctttatg atgttgagaa atcatctaat ttctcagaac tttttcttat ctctaacaca    240

gttattacca t                                                        251
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<210> 35
<211> 1331
<212> DNA
<213> Homo sapien

<400> 35
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tagatcagct ctcaaacact aaagtcctta atggcaaggt cttttctgat agcttcatgg    180

atagtattga tgatcagatt cttctgtgt tattgtctta aaaataagca tttgaacctt     240

aatttaaatt cttttctttt ccatttagag atatgttttt ttctttacct tcataccttt    300

ctatttcttg ctaatttcta tcactaattc cttataattg tccctgctcc ccttcttgat    360

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gaatattaat gaaccagagg acatactagt cacatgttat tatacactaa aaaataggaa    540
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tttattcgga ttgacgaaaa tcaaccataa ttttcaaggg atcttcatgg gttgtgactg        720

gaagctgacc ttagtcttgc gtctcatcct ttatgatgtt gagaaatcat ctaatttctc        780

agaacttttt cttatctcta acacagttat taccataata atattgtctc catttatcat        840

acaggatcat tatgaaagta aaatgaagta gtatatatga aaatgctttt taaacacaaa        900

agctttatac aaaatattgt tgaatttaaa taaggtaaat cttttttagt ttatatattt        960

gcagactata cttgttggtt aaattgggca atttaacgtt catagggaat ttggctccta       1020

ggtcctcctt tcgaagagca aaccggacgt accctatttt ttgctaggtg aactattttc       1080

gggcattcgc aacttaattc cctcggtttg gggtgcacat tactctaaat cgctggggct       1140

gatcttacct ggactgttta aggtcggcca gatcccttgt tgagtgccaa ttgcgataac       1200

aatagagccc cgacaaaatg agaacttctt tctgcataac gggggcacag gggcgcaaga       1260

gtgattgcgc caaaagagtc tagccagttt ccctcgcaaa gaaaattatc tcaccctcat       1320

tgactactcg a                                                            1331
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<210>   36
<211>   224
<212>   DNA
<213>   Homo sapien

<400>   36
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aacgtgtaaa aaatagattt gccatttaaa atgtgctttt caagtttgac ttttttaggat       120

acaattaatt cactaaatac agaacttaac taaggacaaa aatttaaaga tcagcattct        180

ttcccttccc atcacgctca acttaacatg aagaactgta aaca                        224
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<210>   37
<211>   1547
<212>   DNA
<213>   Homo sapien

<400>   37
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aaattatgct gtgaatcagg tgttgcaaat tatggcccac tgcctgcttt tgtgtaagtt        120

ttattggaac acagctacat tcagtccatg gctgctttta gaatacaaca gtagacttta       180

acatttggaa cagggaacag aaaccagagc catacagcta ataacttga aaatatttac         240

aagttgatgc tttacaaaat ccatctgctg acccctgctc tgtaccattg ttctcttctg        300
```

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atggtctgtt tactaaaaaa taaaaacttc acaaacatgt aaaaaataga tttgccattt    360

aaaatgtgct tttcaagttt gactttttag gatgcaatta attcactaaa tacagaactt    420

aactaaggac aaaaatttaa agatcagcat tctttccctt cccatcacgc tcaacttaac    480

atgaagaact gtaaacatcc taagcttaca acaaacctat ctagttagac ttcagttaac    540

cacttacaca tccccctccc ccatgaacta tttggaaaaa gctgcaggcg taatattgga    600

tccctaaata ctttattctc cttataccat tatcagaccc aagtatcatc taatagtcca    660

taatcaaact gcctaaagca gtttctacac tgtctttta actatttcaa actatcaagg    720

tccgcatttt cttccttaga acttttagtc tttttcttcc ccaaaatatt tgagtccatg    780

ccagttgcct ttagttgtac ccaaataatg gtttgtctgt ttactaaaag tagtactctt    840

aaatttaaat ttagtgttat ttttgttgtc atcgttcctt cttcctcatg tggttgtgca    900

ggcagagctt gagcatccag atttcaaaat taaaaattta aagataatct agtttaatat    960

atagtagttg aatcacctta agtctagact gctgtatgag cacccattat ctttcactat   1020

attccatcat cccccctccc catgaactat ttggaaaaag ctgcaggcgt aatattggat   1080

ccctaaatac tttattctcc ttataccatt atcagaccca agtatcatct aatagtccat   1140

aatcaaactg cctaaacagt ttctacactg tctttttaac tatttcaaac tatcaaggtt   1200

cgcattttct tccttagaac ttttagtctt tttcttcccc aaaatatttg agtccatgcc   1260

agttgccttt agttgtaccc aaataatggt ttgtctattt cctaaaagta gtactcttaa   1320

atttaaattt agtgttattt ttgttgtcat tgttccttct tcctcatgtg gttgtgcagg   1380

cagagcttga gcatccagat ttcaaaatta aaaataaaa gataatctag tttaatatat   1440

agtagttgaa tcaccttaag tctagactgc tgtatgagca cccattatct ttcactatat   1500

tccatcatcc cccaacatat ccacagtaga tgaagggcag tttgctc                 1547
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<210>   38
<211>   710
<212>   DNA
<213>   Homo sapien

<400>   38
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atcgtggtcg cggcgaggta cttatgtttt taaaaatatt cagtcatttc ctactataat    120

cctcatgtat ccatgtaact gactcaaaaa tacttcagcc acagaaagct aaaactgagc    180

aaatctcatt cttcttttcc atcccctttg catgtggctg gcatttagta atgattaata    240

atatggccag ctgaataaca gaggtttgag acacaattct ttctcaaagg agtcagctaa    300
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32

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gctgggtcta cttatggaca aacatctaaa tgtgtggaag tatctgatat ttgacaatgg      360

taaatttcca cttagctagc tagcattgtc agacttcaat ctcctcatgg ctctggccgt      420

cctgttttaa gcatgataat tgttggccac atctcacata gttctcattg agtgagtcca      480

taaataaaca gggttttttt tttttttaaa gagcagccaa gcacaaagtg gtgaccttgt      540

tgactttta tgcgactttg tcatatgttc ctaacccca ataaaagcaa tgtggcatca        600

actataaaaa aaaaaacaa aaaaaaaaa ggttgggggt aaccggggcc aaaagcggtc        660

cccggggttg aattgttttt ccgcccaaat tcccaccatt ggaaaaaaaa                 710
```

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<210>   39
<211>   2399
<212>   DNA
<213>   Homo sapien

<400>   39
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ttttaagaaa caaaatgaat cctacaagga gaatgatttt tagccacaca tagggttgga      120

tcttgagagt gacctacaga ataaaagtac ttttaaaata aagtagtcag aggctattca      180

aagggtaaaa taatcatagt accacattgg tccacttgac actaaccaat cgatcatttt      240

tttttaatca agaaagctag attctatcag ataaaatcac tgcttctaaa gagtttaaat      300

ctagttagaa aaagttatag aaatgtttgc aaagataagt aacagataga gtcagtagag      360

gataagatca aaaacaaaac caagcaaaag atgagttcag gggagtttgc catcaagttg      420

gcaaaactga cttacttagg gaagaaagtt ataaaacagg aaaatatgag atgaaccttg      480

agtgatgtgg aagatttaga taaatggaaa ggaaggagaa aatggagttc tttaggtggt      540

tgtaattgga ggaggaaatg aatacacaca tcttgttgac ttaaacccag acattcagca      600

gctctctata catatctgga aaagactgca cagtcacctc ctgtctctca ccccaggtat      660

tacttagaat tattatcata tttcccttcc tttaaagtaa gtaagggtga ttggtgacaa      720

tatggagaac tatgattttt ccattaacct aataataatt ggtatttatt gagttctgtt      780

aagcatttta catattaact cacttaagcc tttcaacagc cttgcaaaat aggtattatt      840

atccccattt tacaggcaag aaaactgagg tttaagtaac ttgccgaagt gccatataca      900

gggctcacat tcagtattgc agttgcaaag ctcatgatct atagtgccaa gttgcaatat      960

tgtagtcaat gtcacaatta ttaccccttt ttatattcct tgatattttt ccatggcaaa      1020

caattagcta tttcatttaa taatcaccta aaacttttca gtcttctgat taaaattacg      1080

ctggagtgat agaatgtatt ttcatgatag aaattgggaa aaaaaatggg gaatgaagtt      1140
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tatcagcatt tcagacttgt tttttttttt ttttttttttg caagactttg atgagattgt   1200

tcacttttgt ctatgtaaaa tcccaaatcc ttgagaataa aaaaggggga ggtttaagtc   1260

acttgttgca atgccctttt taatagaggc aataaatcta aaggccataa atttagagtg   1320

acttacagaa gatcgaactt tggagtgtgg cagagtaagg gatggaaacc gggccctcca   1380

gttcactatc agtagctttt gcactggtct gcccttccta aattaagtat gcacttcaat   1440

ttgatgagtg gaaacagtct atctgggcag taaccaggga gctttgtgcc tagtagattg   1500

cttctgttct gcacttcttt ggtttcccac ctcaatgtaa aaaatagcta gcaatgaagt   1560

ccagaagttg tcaatggttc atccccagaa gaatgcataa tgtccaaagt tgtatgtgta   1620

tgatgtcttc aatggtatta agttatttca aattcttagt tcacctacat aaatcatttc   1680

taacaagcat cttcttaacc aactttatgc acagtgtatg tttgtaagtg cttctgcacg   1740

aatgtttata catgactgtt tccatagtac ttatgttttt aaaaatattc agtcatttcc   1800

tactataatc ctcatgtatc catgtaactg actcaaaaat acttcagcca cagaaagcta   1860

aaactgagca aatctcattc ttcttttcca tcccctttgc atgtggctgg catttagtaa   1920

tgattaataa tatggccagc tgaataacag aggtttgaga cacaattctt tctcaaagga   1980

gtcagctaag ctgggtctac ttatggacaa acatctaaat gtgtggaagt atctgatatt   2040

tgacaatggt aaatttccac ttagctagct agcattgtca gacttcaatc tcctcatggc   2100

tctggccgtc ctgttttaag catgataatt gttggccaca tctcacatag ttctcattga   2160

gtgagttcat aaataaacag ggtttttttt tttttttaaa gagcagccaa gcacaaagtg   2220

tgactttgtt gacattttat gtgactttgt catatgttcc taacccccaa taaaagcaat   2280

gttgcatcaa ctgtgaaaaa aaaaaaaaaa aaaaaaaaag gttgggggta accgggccca   2340

aaagcggtcc ccggggttga attgttttc cgcccaaatt cccaccattg gaaaaaaaa     2399
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<210> 40
<211> 538
<212> DNA
<213> Homo sapien

<400> 40
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cgtggtcgcg gcgaggtaca gagtatgtag tgggcatctg ttgaatgaat gctttttccca    60

gtagcagtgt attcatacaa tattaatata attgtcccct gggcttacgg ataaagaatg    120

aaagcatcaa gtgcccagtg agtgagaccc aggtgttctt cctccacccc tagtggtccc    180

ctgggcaggt cttttttttt tggtaacact caccaggtct gttctgtagt caatcatgtg    240

atggactgtg tcggtgaact gtgcaggaca ctgttctcat agtgttcatt agcgacagag    300
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taaacatgtt tgccatgcaa gggttatttg gcatctgcat ttaagtgata atgttgaatc    360

aatgaaaagg tgttgattaa gcagtagttg tagatatgct aagtttttca aattactaat    420

atcaagtgga gattgttttt acttttaagg gtatggcttt ggtgatagca taaataatgg    480

ttttcctttt tggtaatgta acattactgg ctggcaactt tggtattccc atagactg      538
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<210> 41
<211> 1643
<212> DNA
<213> Homo sapien

<400> 41
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ggcctttgca cattgaagtc ggcactgctt tggtgccttt tttgtttttt ggctcggtgt     60

tttgactgca agtctttttg gatagaattt tatagttaga aagtagctaa cacttgggtt    120

ttataggcac aaaaaacaag tcttatacta gctgtacttt attttttgag ttcttattaa    180

tgaggaacat ccacttttgc attgacagtg atttcaagat tgctttatca gcctttaaag    240

gattcttgac tagtcgtgca catcagaact gccaggtccc cagtggttct gaagcagtaa    300

gctttgggtg ggctctggca tcagcacttt cactaagctt cacagataat tctgatgcat    360

actccaggcc tgaaccactg atcaatttga aacatgcata acaaagcaaa tcattcagag    420

agacaggtcg ttgctccgga gtgatacaga tctggcagta cccagccctt gtgtgtgtgc    480

gttagctcag cacctgccca cactgcgagc ccccgtagga tgtgccttgt ccttccctgt    540

ttcagcactt aacacactac ctggtacaga gtatgtagtg ggcatctgtt gaatgaatgc    600

ttttcccagt agcagtgtat tcatacaata ttaatataat tgtcccctgg cttacagata    660

aaaatgaaag catcaagtgc ccagtgagtg agacccaggt gttcttcctc caccccctagt    720

ggtcccctgg gcaggtcttt tttttttttgt aacactcacc agtctgttct gtagtcaatc    780

attgattgac ttgtctgtga acttgcagga actgtttcat agtttcatta gcacagagta    840

aacatgtttg ccatgcaagg ttattttgca tctgcattta agtgataatg ttgaatcaat    900

gaaaagtgtt gattaagcag tagttgtaga tatgctaagt ttttcaaatt actaatatca    960

agtggagatt gttttttactt ttaagggtat tgcttttgtg atagcataaa taatggtttt   1020

ccttttttgt aatgtaaatt aattgctggc aacttttgta ttcccataga ctggggaagc   1080

ttaattgcct ttacaagtac ttatgtacaa ctttgtatca aattttctgt aatagtttat   1140

gctttagtac tatatatgta ctaataattt tatctgactt ctgtttatat catttgtaca   1200

attacatggt tgtaaaactt ttcctcaata tccttctatt tttatatatc tttctttctt   1260

tctattcctt tctaatcttt attatattat tttaatctct ttcattttttt tctactctct   1320
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tctcttctat ctttctaatt cacgatttct actctattat attttttcta ttactccata   1380

tttatgtcta ttatcttatt ctaattatac ttttttctct tttacttttc ttattatctc   1440

tccttctaac tttatctctc tttctttatt tgatctttc ttttatttttc tatattattc   1500

tttttttttt ttactcttct cttttatttg tcttatttct ctcaattatt catatttatt   1560

ctctctctta ctttctacat attcttactc ttattttta taccttcttc ttatttacct    1620

tcctatcctt tcttgtttct cct                                           1643
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<210>   42
<211>   711
<212>   DNA
<213>   Homo sapien

<400>   42
cgtggtcgcg ggccgaggta ctacgcataa tgttaatagc tgagatgtta aagaatttga    60

agtctaaaat ataaaagatg aatataccca tattaatcct atgttaagat gctctggaaa    120

taaaggcctt attcccttac acatgcgatt tttgtaagat aatatataca cagtatattt    180

taaatgtttg tgtgggtggt ctgtgtagtt actccccata caacaaagct gacaaaattt    240

ttaatttaca caatgtattc tgcattttca aatgtttatg ttgtgtatat agcaaagaaa    300

ttatcttact gatatgcgtt gaccaaatcc catggagaaa agacatctca tttgaggttc    360

cccttcctct catgtgtttg attttttgga aggtgataca gtatgtgggt aaccatgcaa    420

atgtttatga ataacttttac tgaagtgatt ccatccgtat tctgttctaa tacttggaga   480

atgaccttca tatttatata ttttatttct ttgtttcaac tatccagtga taattcagga    540

aatgtttcct tttttttttt ttttacaaaa acctttttact gtgtcacatg ttgtataatg   600

taaggtgacc gtgttcataa agtctctttt agaaaaaaaa aaaaaaaaaa gggggggggta    660

ccctgggcaa agggcccggg ggaatggttc cgccaattca ctgaaaaaaa a             711
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<210>   43
<211>   5520
<212>   DNA
<213>   Homo sapien

<400>   43
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tggatggagc tggagaatat tatgcttagt gaaataagcc agatacaacc ttttgtacaa    120

aaatacaaaa ttgtatgatc tcatttatat gaggtagtta gaagaggcaa ctctatggag    180

acagaaagta gaatagaggt taccagggct gtgaggggag aggtgaatgg ggagtttaat    240
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gaatacagag  tttctgtttg  gaatggtgaa  aaaattctgg  agatggataa  tagtgatggt   300

tgaacaatat  tttgaatata  tttaatgcca  cagaattgta  cacttaaaaa  tggttaaaat   360

ggtaaatttt  acacgatatg  tatctgtatc  tatatatatc  tctctctata  tctatatatc   420

ttaccagaat  acaaaattta  ataacacact  ccgaaaacct  ttacagatga  ggaaactgaa   480

gaaaactgtc  tacaggggag  gagttaagaa  tttgcccagg  attattcagc  tgggaatttg   540

cattcgggat  ccaaacttag  ttctgtttca  ctacatatta  tctactccat  attatctgtt   600

ctgtgttatc  tgctggcttt .ctgggtgatt  aaagatatgt  cagctccgag  aagaatgagt   660

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tggtaatagt  atgcatttga  gaggggagga  gagtagagtt  ctaaggatgt  ggtctttgga   840

gacagtttct  tgggttccag  tccctgagct  accaatttgt  gtctggggtg  ttatcctctt   900

gatgtcttag  catccctatc  tgtaaattgg  tgaggataat  gataacatct  gataaggtgg   960

ttgtgaggat  taaaggaatt  gatacatgtg  aaatccttag  aactgtacct  ggcaaaaagt  1020

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gaagaacata  taagggagac  tagataccgc  ctgccaagcc  taaaatactt  accatgtggc  1740

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taaggggggt  gcatagtatt  ccagtttatg  aatgtgcatt  acgcagcaaa  ccaatctgtt  1860

gtgattgaca  ttgttttctc  tcctgaaaag  aagtgaacat  ccttatgtat  ctttgaacat  1920

ttgtgtgaca  attttctata  gagttggctc  tttcaagatt  ttgaacattt  ctagttttaa  1980

taggtgttgt  caagttatat  taattttttag  ttaaaacaac  aactgtattg  aagtataatt  2040
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tacatacaat aaaaagcaca catttgaagg gtatgatttg aggagttttg acaaatgtat   2100

gcacctgcac cgctgcctgg atcaagatct ataatggttg ccatcatctc agagtccttt   2160

catcctcttt tacagtcatt ctctcaactt tttttttttt tccctccaag atggagtctt   2220

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gtgtcgccca ggatggtttc caactcctgg gctcaaatga ttctgccttg gcctcccaaa   2580

gtgttgggat tacaggcatg agccgcggca cctgacttgt agtaaactct ctgaattaat   2640

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ttttcattga cacttcgtgt tgccagtctt ttaaattttg gccatcaaat gagtattaag   2940

tatctcattg tgggtttgtg tttctcagat gatcaatgat gttggaacat cttttcatat   3000

gcttattggc catttgtgta ctttttttgg ttcaagcctt ttgtcccttt aaaaaattgg   3060

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tctgtcagat tgtgttgcca atattttatt gttcattttt gtttgatttt gtgtattttt   3180

aatactataa agatcaagtt aaaactttaa tatgggaagc ataatcagat aaattatgtg   3240

aaacaaattg tccttaattc acgagtcatt taattagtgt aacaaaatgt tatgcatttg   3300

cagaaacttg taaactaaaa ggatattatt catatgctgt taggtgtatg gatgataact   3360

tttattaatt aaactagttt tgaaaattat tgtatttagt aattctcttc attttgcata   3420

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gagaatatta aaagtaaaaa gtgaccttga tcttagaatg gggtatgtag aaatgatgat   3540

tgccaaactt agtttcccta ctttgacaat caagtaaaat tttttttttt ttttttttgag   3600

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gctctgcctc ctgggttcac gctgttctcc tgcctaagcc tcccgtaaat tttttttatta   3720

tagaaatgga tggcttttca gattatatat acttggtttc tatacactat tttattttttg   3780
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taaagtagca gttcttttgc tcaacacctg aaatgccccc acaataaatt tttagttttt   3840

cttcaatatt caagtaatac ataacttttc cttttcctgt ttaacaaaga aaaaaaatat   3900

ataaagcaag ctgttggacc tccattgggt gttgtttacc accactgtag gtgatcgtgg   3960

cattgtccac ctcagtcttc tcatggctgt ggattcaagt tatgaaattc ctgaaggtag   4020

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gttttttta ttctttgctt ttttatttga gacggggttt tgctctgtca cccagcctgg    4140

atttcagtgg cacaatcttg gcttactgca acctccacct cctgggctga aacaatcctc   4200

ccacatcagt ctcctgagta gctgggacca caggcacatg ccaccatgcc cagctaattt   4260

tttatatttt tgttagagac agagtttcac tatgttgccc aggttggtct caagattccc   4320

gagctcaagc gatgttccca ccttggcctc ccaaagtgct aggaccacag gcatgagcca   4380

ctgtgcccag cctagtttct tttctgtatg cttttttttac aaaactgtga gccacagagg   4440

ttgaccactt agccaatttg ttgctagaag ggagaaaaaa atctccaact agcctccaga   4500

caaaacatac tcaaattcaa acagcagtta gttttaatta acatacagaa gtaattttag   4560

actttcagat ttctatgctg actagaacac tttgcaggct gaagctgaca ttattaccaa   4620

atacttcatt taagtacata ctctgaagtg tcaggcttcc agtatatata gcaacgctct   4680

gagagacaaa ctgggctcat atgacggggt tgcattttat tttcttaaca ggtctttaaa   4740

ttgggcagtt ctgaaattct gtttggtcag ttctagatgg tacgtcatgt gaatgcaacc   4800

aagcactgta gttgaaattg tgttatgcca ctactcatat gttgtcttag gtactacgca   4860

taatgttaat agctgagatg ttaaagaatt tgaagtctaa aatataaaag atgaatatac   4920

ccatattaat cctatgttaa gatgctctgg aaataaaggc cttattccct tacacatgcg   4980

attttgtaa gataatatat acacagtata ttttaaatgt ttgtgtgggt ggtctgtgta    5040

gttactcccc atacaacaaa gctgacaaaa tttttaattt acacaatgta ttctgcattt   5100

tcaaatgttt atgttgtgta tatagcaaag aaattatctt actgatatgc gttgaccaaa   5160

tcccatggag aaaagacatc tcatttgagg ttccccttcc tctcatgtgt ttgatttttt   5220

ggaaggtgat acagtatgtg ggtaaccatg caaatgttta tgaataactt tactgaagtg   5280

attccatccg tattctgttc taatacttgg agaatgacct tcatatttat atattttatt   5340

tctttgtttc aactatccag tgataattca ggaaatgttt cctttttttt tttttttttac   5400

aaaaactttt tatttgtaaa atgtttgtaa taatgtaaag gtgaacatgt tcaataaaaa   5460

tcatatatta aaagtttaaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggcggc    5520
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<210> 44
<211> 369
<212> DNA
<213> Homo sapien

<400> 44
atgatagatc atataggcga atgggcctct agatcatgct cgagcggcgc agtgtgatgg   60

atgcgtggcg cggcgaggtg gttgattgag gttaaatcat ċaaccactag ccccccttcca   120

aaatcagcga gatatttgat gattaagtga ttcattgggt atgttctggc tactgatgtt   180

actgaaatct gcaatcgtgt atgttttta atttgttgct tttgtatttg taattttatg   240

acatttcgaa gtttctgtgt cttaactctt tttaattaat tttctgcacg ttgctttttt   300

ctctttgttt ttaattccat acagagtatt caattcttga aacacattaa aataatttgc   360

ttgctaggg   369

<210> 45
<211> 1019
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (21)..(21)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (284)..(383)
<223> a, c, g or t

<400> 45
gcgcttccct gggagtaagt nctcctccag tccctgtcac tggacttgtg ccttagggct   60

tggggacaaa cactcaggga aggccctttg catggatggg acagtgcctg gctgcctgga   120

ggagagctaa gcagttagga gatagtctac tctagaaaac taagaattat tttaaggcaa   180

agaccatgct ctgatcaacc agagaagata ctatcaatag cccaggacta tcacagctga   240·

atggaatggg atgggacatt ggtgtctctg tcaactgatg aacnnnnnnn nnnnnnnnnn   300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   360

nnnnnnnnnn nnnnnnnnnn nnngaattgt cctttggttg ccttagttac cagagttgaa   420

tgaatgtaca catttcggta gtggggggc agagcggata accccttcct tgtctgtttc   480

ctttgagaaa ggacactcca ccttttcaaa ggtacttaaa gccatcttta cagattgctt   540

gtaatgtaag gaaagagtca tgtcctttgg attgattgag gttaaatcat caaccactag   600

```
ccccctttca aaatcagcga gatatttgat gattaagtga ttcattgggt atgttctggc     660

tactgatgtt actgaaatct gcaatcgtgt atgtttttta atttgttgct tttgtatttg     720

taattttatg acatttcgaa gtttctgtgt cttaactctt tttaattaat tttctgcacg     780

ttgctttttt tctctttgtt tttaattcca tacagagtat tcaattcttg aaacacatta     840

aaataaatttg cttgctaggg tatggtttat tttataatta cattcctagt cttgtgtggt     900

tattgtaatg atgtctggtc ctaatttctc tgcccgtatg aaaaagaacc ccttgcctgt     960

tgatcctaaa tataaatttgg aaattaaaaa aacacacaca caaacaccaa aacaaaaag   1019
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<210> 46
<211> 589
<212> DNA
<213> Homo sapien

<400> 46
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ctgggaagat ttccacgctg agattcccag gcgcaaactg cagctgatgc gttcctcgag     120

gttctctttg agatggaaac gagccggctg ctcgtgttca tttctgtttt gcttttctac     180

tgttgaatga ataccaccac agtgaaggga ttattggaat gttttcgaaa cacaaaataa     240

ccattttgta acttctgctg tatagttttc ttttcctgtg gatggagtgt gtaactacag     300

cacacattta aatgaaatct ctgttaatcg cctctgcact atcttagcaa atattttaaa     360

cctaaagcta aatgttgaaa taaaggtgta gagcattact gagatgcaaa tggagctctc     420

tctggctcct aattaatgac ctgcaaaaaa aagatcaaaa aaaaaaaagt ttggggttat     480

ctcactggct catacgtatg ttccctgttt gaatttgttt tccggttcaa atttccacac     540

aatttcgcac aagtgggcag aaaacgagaa cgggagaaag aggaaagga                589
```

<210> 47
<211> 675
<212> DNA
<213> Homo sapien

<400> 47
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gtcaacgtct attttggggg gagctgggaa tatttggagt tctacatgcg acctggagga      60

atttatcctg gggccggggt gacatctggg gtcccctagt gagtggcagt gtgtcttcct     120

gctctcctcc tgccctcgaa ggaggactgg gaagatttcc acgctgagat tcccaggcgc     180

aaactgcagc tgatgcgttc ctcgaggttc tctttgagat ggaaacgagc cggctgctcg     240

tgttcatttc tgtttttgctt ttctactgtt gaatgaatac caccacagtg aagggattat     300

tggaatgttt tcgaaacaca aaataaccat tttgtaactt ctgctgtata gttttcttttt     360
```

```
cctgtggatg gagtgtgtaa ctacagcaca catttaaatg aaatctctgt taatcgcctc    420

tgcactatct tagcaaatat tttaaaccta aagctaaatg ttgaaataaa ggtgtagagc    480

attactgaga tgcaaatgga gctctctctg gctcctaatt aatgacctgc aaaaaaaaga    540

tcaaaaaaaa aaaagtttgg ggttatctca ctggctcata cgtatgttcc ctgtttgaat    600

ttgttttccg gttcaaattt ccacacaatt tcgcacaagt gggcagaaaa cgagaacggg    660

agaaagagga aagga                                                     675
```

```
<210>   48
<211>   420
<212>   DNA
<213>   Homo sapien

<400>   48
actggtggta ggttacatta gtggatcaca cacagtgtac tacttggccc tgtaaaatgg     60

tgcctgtgga ctagggtgag tttggataag tatgtatgta tgtatgagtt atagcaaaat    120

gaagtagatt gaatcaagtc catgcaaaag cagtaaaaca gttattaatt gttaattttt    180

taaaaattaa aacgttaata aaacagtttg taatgttttg ctagtgtctt ttataaaatg    240

atgtaagtta cagtggaagt cttcacagga cttgtgtctt tcctggaact attgaaatgt    300

aatttaggat gatttgatct tccatctcaa gttgtcaaca tggctgtgtc attctggctt    360

acatatgttt tatttaacaa aattctagtc aagggataag gccttaatga agacaagctt    420
```

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<210>   49
<211>   846
<212>   DNA
<213>   Homo sapien

<400>   49
cgatgttgcc tctagatgct gtcgagcggc gcagtgtgat ggatcggccg ccgggcaggt     60

acaacaacca cttctcagta gaaagttaag aataacattt aaaaacatat tcatgtttta    120

gagaatgaat gtgccatcgt tgtatattaa ataaaaataa aagattaacc agctataaga    180

acactacaat tacaactaga gtggcagtgt tttttaacta ataaaagtat acatgtttat    240

aagtgcagta tacctgaaat cttgatgttt gtcaatactt atggttgctt caaagataaa    300

tttatgtgat tattttttgaa agatgtgtat taatttaaat aatacccaga aaaattataa    360

cttaaaaatt gcagttttca atatgagaat catttatgtg tgtaaatact caactaagaa    420

aaatcaaaag tgtggtataa tattacaaga aaaaatattc aaaatggaaa gtccatttat    480

gaatgtatta atattaaaat ccaaagttat gtttttttat aatgtctaca ttataatgtt    540
```

```
tacaaaggcc ataaaatcat ttcagaaagt tctcatcctc cagatatgac caataaaact     600

tcatttccta gaaaaaagaa gaaatgttat aatttatacc aagatgaagt aagatttgga     660

attacgtata cttacacctt cattttggat ttgattttga atgcatgctt aaaattctga     720

tattcatatg acttatttac catcaaaatt gatttgattt tttgctctca ctttctatat     780

gttcttgtcc aaaaaaaaaa aaaactgggt tatctgcctc ttccttgatt ttctcaccca     840

aaaaat                                                                846


<210>    50
<211>    2347
<212>    DNA
<213>    Homo sapien

<220>
<221>    misc_feature
<222>    (207)..(230)
<223>    a, c, g or t


<400>    50
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caatagctga gattaaatag gaagctctaa ccttagtttt ctgatttctt ttttaagttc     120

agactatatt ctaaacgaat gatcagaggt aggtgatcaa ggaattaaat tgaaagcaga     180

agtagtaatt tcaacaaaac caagcannnn nnnnnnnnnn nnnnnnnnnn gatggatttt     240

ggctctgtcg ccaggctgga ttacagtgag ccaattttcg cggccatttg cacttccagc     300

ctgtgggaga cagggcaagg cttcttgtct caaaaaaaag aaaatataaa tggaaatacc     360

agaatcaccc cttgatagag aattccattt ggcaaagtac aaacaaccac ttctcagtag     420

aaagttaaga ataacattta aaaacatatt catgttttag agaacgaatg tgccatcgtt     480

gtatattaaa taaaaataaa agattaacca gctataagaa cactacaatt acaactagag     540

tggcagtgtt ttttaactaa taaaagtata catgtttata agtgcagcat acctgaaatc     600

ttgatgtttg tcaatactta tggttgcttc aaagataaat ttatgtgatt atttttgaaa     660

gatgtgtatt aatttaaata atacccagaa aaattataac ttaaaaattg cagttttcaa     720

tatgagaatc atttatgtgt gtaaatactc aactaagaaa aatcaaaagt gtggtataat     780

attacaagaa aaaatattca aaatggaaag tccatttatg aatgtattaa tattaaaatc     840

caaagttatg ttttttata atgtctacat tataatgttt acaaaggcca taaaatcatt     900

tcagaaagtt ctcatcctcc agatattgac caataaaact tcatttccta gaaaaaagaa     960

gaaatgttat aatttataca aagatgaagt aagattttgg aattacgtat acttacacct    1020
```

43

```
tcattttgga tttgattttt gaatggatgc ttaaaattct gatattcaac taatgactta     1080

gttttaccat caaaaaattt agattatgat ttttttgcat ctcacttttc ataataaatg     1140

taatatagat acaatttatt ctgttttttg ttgatgttat tattgtttcc actgctattg     1200

aaatcgttct tttaaccatg aatgtgcaga atcagttgat tttccatgtg acagcttctg     1260

ctaggaatct gcagtggaac tggaagtatt tgcaatgaaa gaacttttt ctttaattaa     1320

aatagaattc ccatagaatc aacaattcct cctggtcatc aaacgcgagg ttttttcctgt    1380

acttggtaga gcagagtgtg tgtgtgtttg tgcgttgtgt gtgtgttgtt tggtgagaat     1440

gatgagagct gagcattgtg aaaatacagg cgggggtggg gtaacagagc tgggtagggg     1500

tccagggcgc ttagattgcc ttattgtcca ggcttagatg cctcttaccc agagccatca     1560

ggtgtaccct atatagctcc agcctttctg cctactcctg agaagataaa ctgggatcct     1620

gcagtctgga ttcctagaag gagatggaaa gcccagccat atccccagtt tgacttgacc     1680

agtagtaaaa ctagcactac agtttgatcc cttttttacct ccttgaatat cttcaattca    1740

tcaaggatct gtaaagaagg agaggtacaa gatatatgaa acccaaatct caaaacaatg     1800

atttagtgaa tttcccatga actttaaaca gtgattgctt caaaatttcc aagagccata     1860

ctctccctcc agctgctgtg tgtgtgtgtg tgtgtataaa tgcacactat tttaacctaa     1920

aatggtgccc tgtggctgcc attctctaac tcttgcatac ttaaacattt attcttggtc     1980

aaattaaaac ctcatgcatt tccaaagata taaatgcctt gcctggagaa gttagatctt     2040

gcaagtctca ggagggccga gatggtttgt cttatgccta tagctgttta tgtcccacca     2100

gtgggtgttt gtttcattag gtgccgtttc cagccaaatg ttctcattct tcacatcttc     2160

aatgttgagt agcaaacaga agaacatcct tcttagcata atattgcttc actggactga     2220

ttgtgaactc aaaatacctc ttgtttcttg tgaagggttt gcctttgta aacaatataa      2280

gatcactttt ggtcaaccac cctgtctgaa tttatctggg ctgctataat aaagtatcat     2340

aaactgg                                                              2347
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<210>   51
<211>   150
<212>   DNA
<213>   Homo sapien

<400>   51
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attttgctat ttggaccata cttttaagtg aattgatctt acatacatgt taagtctgat      120

ttatctcccc acattttta acactaaatg                                       150
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<210>  52
<211>  1748
<212>  DNA
<213>  Homo sapien

<400>  52
cccttTcgag cggccgcccg ggcaggtaca agttTTtatg tgggtgtgta taggtagatg    60

cctatcttac cgatatatgg aatggagtta tagtaacttg tagcgtcttt ctctgctgac   120

tccaactgta tgtcagttct gagtctgttt tggttgatta ttttctttac gtgtcatgct   180

tttctgcttc gttgtatgcc tggcagtctt tgactggatg ctgaatttta cttcatgggt   240

gtẗaaatatt ttcgtattgt tataaacctt aaactttcag agacgtagtt aagttactta   300

aacagtctga tactttcagg tcttgctttt atgatttgtt aggcagacct ggaccaatgc   360

ttagttgagg gctaattttt cttttTcttt ttgagacgga atctcgctct ccctccaggc   420

tgaagtgcag tggtgtgatc tcagctcact gcaacctctg cctcccgggt tcacacgagt   480

cttctgcctc agcctcctga gtaagctggg actacaggca cgtgccacca cacccagcta   540

attttTgtgt ttttagtaga cggggtttt caccatgttg gccaggatgg tctcgaaccc    600

ctgacctcaa gtgatcagcc cacctcagct tcccaaagtg ctgggattac aggtgtgatc .  660

cactgcaccc ggccggcatt atgatTTtgt gtactcttga aatggttatc tttgtggatg   720

atttttTtTt ttaagctgaa acttacctca tgaataactt gattaaagta gtaggtgatt   780

aaaatttcaa tagaatcaaa tgagacaaaa attttaaact gactcatttg agtttcaact   840

ttacagtcat tgaccataaa gcacactaaa aatgtaagtt atttTtaaat acatctgaaa   900

taaaaatact tactaaaaag gaagaagccg aagatgtata tttagaccag cacacaattt   960

tgatttcaat tagccttatt ctaatattta gcttTtagat ctttcataca cattttcacg  1020

actttgcaa ttgagaccag aaagacttgt aggtctttct gcagaatgag tgggtccttg   1080

caaagtgagt gggaaactta ctcctagatc agaaatgttt gcctctctga gtaaaatgtt  1140

tctttcagat gagccataga gggggcacct tttactcaac ttttctttgt tttgaaactt  1200

tgtttcccat actgttttca gccttttgtt tataattaga aattgtgaga agcttcattt  1260

agtgtttaaa aatgtgggga gataaatcag acttaacatg tatgtaagat caattcactt  1320 ··

aaaagtatgg tccaaatagc aaaaatagga ccaggtgaaa catgtagtca ttttTtaaaa  1380

acatgtactt ggtcttttgt gtgtgtctgt tttattccat tagaataaat gtgtccttga  1440

tgtaaatgca aagcatttct tcctgattaa attgtagatg tagactttac aatataattc  1500

aataataaaa agtaattaac ctctaaaaaa aaagagaaa aaaacaaaa aaaaacactt    1560
```

```
gttggggcgg cgcgggcccg gagaaaagtt tttaaaacac ttctgttggg gcggggcgcc      1620

cgggtgtagg gccccggcac aggggtgcaa ggagaaaccg ggccggcacg gcgctggttc      1680

cccaaaaaaa gccgtggcac ggggctcgaa aaccgagggc cgggcacagg ctctcacggg      1740

ccggcgta                                                              1748
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<210>  53
<211>  459
<212>  DNA
<213>  Homo sapien

<400>  53
gggaaactaa caatgttcag ctgttcctgg acttcagaac cacagaactg agatgataaa       60

tgagtggtgt ttcaagttgc taagttgtgg tcattgctta cagtaatgta aactaataca      120

caagtgtaag tttgttttct taaagaagaa aaaaacgggg aaggaggtaa gtgttaaagg      180

atcaaaactc tgacaaaagg ctggttgcag aacatgacag gttgttgcac tggaaactat      240

ttgtcatgca agtttatgtt aaaataagta gcttttgagg actttcattt ttggtcttgt      300

aaacatgcca tttaatattg tccaactgat aatacttttt gcaacagaaa ctgttaaaac      360

ctttaaagca atattactgt agagaagaag tatgtgtatg aaacctgtga ggatactaaa      420

agatctacta gttctcagca taataatgac gtttgacaa                            459
```

```
<210>  54
<211>  217
<212>  DNA
<213>  Homo sapien

<400>  54
gagacagaca tatgggcgaa tgggccctag atgctgctcg agcggcgcag tgtgatggat       60

aaaattaaaa taaaaacaac tgaaggatat atgccaagat aaaccaaaat taatacagtg      120

atcacagcac agttcttaaa caaaagtggc atacaatcta aaatatctc ttttctaga       180

aatactatta tgtaatctag ttcaattatg gaagctt                              217
```

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<210>  55
<211>  2054
<212>  DNA
<213>  Homo sapien

<400>  55
tttttttttt gacaaacagg tgtatgcatt tattcctttt taggaacaat atctaaaaaa       60

agaaccgccc tctgccctcc cccaaaaaag acaaagattc acacagacac atcgggatat      120

atgtacaacg taataaaccc catcctaaag aagcaactgg gataaccccc aggggataca      180
```

```
gaatcagaat tgtaaaaatc atagtgaagt ttgcttgctg taaagcctga gaattttttt    240

tcagttgggt cttcttgcaa ggttgggata cctgcaaaga tttgaaaaac ctaatttttt    300

ttttttttt tttttgctac agtctttaga ctaagcatgc aagacatacg actaagtgca    360

actgagtgaa atgttttttt tttaaatttt aatcattccc taaaggtttg aactgaggta    420

tgcgtactaa cagtttctca tgctgttatc tttactcatg tctagctaca catgctgaga    480

atgaactaat ctaccagatt tttatcctct tttgaatacc aaactaacca gcaaccactc    540

agtttagaag cacagggccc ccttcccatg accctgtctg gctactgcct gcacatcatg    600

aagctgcctg gaaaagtttt ttttttttt ttttttttt ttttttttt tttttaaag    660

tcttgcgtga ccacagactg ccctttatac agaaagcaga gtgaagcttc aaaagtaact    720

gccagagaag tttttgtacc aagcttatga gtggatggga gtgttacttt tctttaaatg    780

aaaaatgctg accaaagcct aatcggaaaa aaaggaaaaa ttaaaaataa aaacaaactg    840

aaggatatat gccaagataa accaaaatta atacagtgat cacagcacag ttcttaaaca    900

aaagtggcat acaatctaaa aatatctctt tttctagaaa tactattatg taatctagtt    960

caattatgga agcttttctg tcctgactct aaactgtctc ctttattgga tactctaatt   1020

gcagtggcat acattcattt tttttttgag atgggactcc cttccttctg tagctccttt   1080

aatattgtgt cctattttta tctgcagtag ccccataaaa tctctttaag agaatgagtt   1140

ttggtctctg tagaggtaca caaaaagaaa aaggaaaaat aactactaga aaaaagtaac   1200

aactttggtt ccattatcta cttggtcttc taaatttacg atgaaggagc agttctcttt   1260

ctcaggttgc aatagcctat cgcttgtcat ttgcctctaa attctttttgc ctcctttgat   1320

caacaataag aggatatttg gcttcatcag ataaagcata aaacagagaa cataatttac   1380

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tgggtgcaga gctgaagtgt ggaggggttc taaggactga ggttgtactg acctgtaacc   1560

atcacatttc tgcataccat gtttgggacc cccccaaagc ccagggccta catgatatct   1620

tctatgagtt tttgtgatac tgggttggtg atataatatt gcataacaaa ctgcagtacc   1680

aaatttgcat atttgaaatt aacactttag catttgctga actcagccct cgttaactcc   1740

cttaacaagt tcaatctgaa atcgaatttg cattcaaaca gtttaatgcc accaagtagg   1800

tctgaactaa tgtataaact cagcgccgcc gccgccaccc ctactttcag ggcagctgct   1860

cggggaagcc ggtttttttt tttggcccat tttgccaaac caaaaccota cccacacccc   1920

gttatcgcca gagcacccca ggcccctggc aacttggttc cacaagggag agccttccaa   1980
```

```
ggccatattg tccagtctaa ttaatatgag cttttttttt tttttcagtg ctgtcgctac    2040

cttaggaccg ttat                                                       2054
```

<210> 56
<211> 221
<212> DNA
<213> Homo sapien

<400> 56
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aaagaaaaag aataattgag ataggtattt actttcgtgc acagtaataa atctagctga      60

gctgctacac cttgctttgc aaagatgttt acataaaata aatcatctct tatcaagtta     120

caatggtaat ttcttgaaat gtagatatga aagctataca cttaatccac tgaaatttcc     180

ttctaatttt ttaatctgta attagaccat caccataagg a                        221
```

<210> 57
<211> 3055
<212> DNA
<213> Homo sapien

<400> 57
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ttggaatccc acaatttcca cgagcccaaa aaaaaaaaac atgtatttta gagttcatct     120

ttggcaaaat ctttggttca gggtactagt tgtttaaaag ttgattcata ttcttacctt     180

gtgctgagaa aggttgcatt gctgcccctt atacacatgc tgcagcttga tgttaaagaa     240

ttttttattct ttctgaagaa ctaattaatg tttaaagcaa ctgtttaata tgatggcatg    300

tgtgtgtgtg cgtgcgtgtg tatgttctga gtccacttct tttttcctaa ataacactac     360

agggattttg tcatattaga tttaatttat aatttgaaaa atcatctagt gtgtgaccta     420

caggcttaga aatggtatag tcaaagacat tttatccaca tttctaatag tggacttgat     480

taagtagata agatcagcat ctgtttatgg tagtaggaga aatagccaaa gttgaggatt     540

ttatgtatgt tttcctgttt acctggaaaa tagcaattaa ttggattttt tggtaaagat     600

tgccttctgt ataatgtttg gattatataa aattgcaaaa atgataacag cccgctttac     660

tgtactaagc ctgttacttt catgacgtgt gagcagaatg ccttattttg taatcttgtt     720

taacttgttg ctactgggac ttgatttact gtggcactag ttaagtaagt taaaaaaaag     780

ttaaaccctc tcattattaa agaggaaagg cgatggtgat gtctgtagta caatataaac     840

cataattgtg atttacctta agtaggtata actcttatgg gatatacagt atagtttttg     900

tgaatcttta catgatagca ttatcttttt ataatttttt ttcctaagat aaacaaatgc     960
```

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WO 02-40672

3/3

Date: 23 may 2002

Destination: Agent

Address:

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52

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56

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gaaatgaaag gcttgtttcc gtctagtcta acttttgag tgtgtttcta tccagccaca   5100

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cactggggtg gggagaagcc actaccattt tttaggtgat ggggatgcca ctgagttgca   6360

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ccggtcttgt tttgtttttaa tgctcttggc ccagtgggtg tcaagaacac tggcttaatt   6540

caagtcagtt gattttttttt ctattaaaac tgttgttaaa atatttttta aaacaaaaac   6600

attatttgtg ccctctttta tatatgtcaa agggacactg tcaagtattt cattttttaga   6660
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57

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tggagaggtg  tctttttttt  tggttttggt  ttttttttctc  cccgtctgca  ttcttaggcc   8280

tcttagctat  taggaactgt  cagatacata  ctagtagcta  attttcctag  cctgaaatta   8340

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ggcttcctgg  tgtggtgtct  tttaccacat  aaaattatta  caaattgcaa  atgttggtat   8460
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58

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tgtgatttga ttatctgtac aaagaaagaa gctctatgca gtgagtttgt ggtttaatgg    8520

tcacaaaaat gttagcactg ctaccactca gcacgtgtaa aattttttaa atttataaat    8580

attaaaattt taaacttaca ctaagacttt tcagttttat ttaaagaccc agggatgagt    8640

gtactgttta aatatttacc tctattaaca taactaatga aggtataaaa ttgcatttag    8700

tttttcagaa gatgctgcaa tatgatttta ggaaataagg ctatgtattg agccagttat    8760

aggctgaata tcaggttgat aaaattttat ttgtattttt aaaattcata aatgggagtt    8820

aaaatgtgtc ttttcactaa atatttttat tacaaaaaaa aaaaaaaaaa aaaaaaaaaa    8880

aaaaaaaaaa aaaaaactgc ggcc                                          8904
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<210> 65
<211> 241
<212> DNA
<213> Homo sapien

<400> 65
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cactcacttg atatgcaaac actggctgtc tagtatggaa aaatattttt ctggctgtag     120

acttgagttt gattaccaaa ttgatttctg tgaattacat ttcaattctg tgcagaactt     180

tttgacagcc ctttaatcac catgtatcca ataaatattt attaaagaca tattctgtga     240

c                                                                     241
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<210> 66
<211> 368
<212> DNA
<213> Homo sapien

<400> 66
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ccaataaatt gaatactgaa tatttggaca attgcctctc tctaagtgct ctagaagctt      60

ctagagggaa ggaatcttgt cttatacatt aaaaaaaaaa aaaaaaagt cttatccagt     120

ctgaagtacg gtgcctggca cattaattcc tttcctcttt tcccctcact gccaaatgag     180

ctattgccac tcacttgata tgcaaacact ggctgtctag tatggaaaaa tattttctg      240

gctgtagact tgagtttgat taccaaattg atttctgtga attacatttc aattctgtgc     300

agaacttttt gacagccctt taatcaccat gtatccaata aatatttatt aaagacatat     360

tctgtgac                                                              368
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<210> 67
<211> 745
<212> DNA
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<213>  Homo sapien

<400>  67
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ccatatttgc aaatctggga gacgaacaat ggtgtgtttt ttatgcctct tattacgaat     120

gagtttgaac atctttttcaa atatttaaga gtcacctgta gctcattttc cataaactgt     180

cagttcatat cctttgccca cttttttatt ggcttttggt ctttttcctg ttgagttgta     240

aaagcacttt tcatgttaag ggaatttgct ctttgtctat tatatggtta tactgtcatt     300

taaacatggt ggcatagttg cttatagaat gtctgaacca tatgcgtcat tgttagatat     360

ttatattggg tctcatttct cttgtattat atactgggat gttttccctg cttttttctgt     420

ccccatcaac aacacacaaa acacacacac cccaaacccc ggcgcggaaa acacaggggc     480

acctacctgc cccccggggg gtgacaccgt ccgatcaccg cggctccaaa attccccaca     540

gcacaactat cgccgacgca acagggccac tgaataccgc cacagagcga cacgcgacga     600

cttcacaccg cgaccgtacg acgcacacgg caacacaaag acgcgccgag gcaaccacat     660

acggacacgc gagaacggca gatggcgacc acgcgccaaa cccaccaaga gcacaacaca     720

cagaaccacg cacaacgcac gccca                                          745


<210>  68
<211>  1064
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
<222>  (93)..(93)
<223>  a, c, g or t


<400>  68
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attttaaaat ctgcccttttc cctctttctt ttnaacagct gcctagtatt tcaccgtatg     120

actgctctgt aattgatcta acagttgtag aacacttagg ttatttcctg tcttttgcta     180

tttcaacagt gctgtaatga atatccttgg tcaggcatca tttttcatac gtgggagtga     240

atctttaaga aaaccaggag tggatttgca aggtcaaggg gaatatgcag tttgaacttg     300

gataaataag gcaaattatc cccccttaaa tgttgtacta attttttgctc ccaccagctg     360

gagggggagg ggccaaattt ccatatttgc aaatctggga gacgaacaat ggtgtgtttt     420

ttatgcctct tattacgaat gagtttgaac atctttttcaa atatttaaga gtcacctgta     480

gctcattttc cataaactgt cagttcatat cctttgccca cttttttatt ggcttttggt     540

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tatatggtta tactgtcatt taatatggtg gcatagttgc ttatagaatg tctgaaccat    660

atgcgtcatt gttagatatt tatattgggt ctcatttctc ttgtattata tactgggatg    720

ttttcccgc ttttttctgtc cccatcaaca acacacaaaa cacacacacc ccaaaccccg     780

gcgcggaaaa cacagggca cctacctgcc ccccggggg tgacaccgtc cgatcaccgc       840

ggctccaaaa ttccccacag cacaactatc gccgacgcaa cagggccact gaataccgcc     900

acagagcgac acgcgacgac ttcacaccgc gaccgtacga cgcacacggc aacacaaaga     960

cgcgccgagg caaccacata cggacacgcg agaacggcag atggcgacca cgcgccaaac    1020

ccaccaagag cacaacacac agaaccacgc acaacgcacg ccca                      1064
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<210>   69
<211>   549
<212>   DNA
<213>   Homo sapien

<400>   69
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attggtcgcg gcggaggtac tcttgaggac attttgtcag attaactata acagtgtagt    120

gtagttttta aaatgcagtg aaaagtttag ctgtctggaa gtcaaattta tccaatgttc    180

agacttctgt tactacttaa tatgaagcca ccatgctggc tggacagaat taatttcatt    240

catgttatgg agaattctat attacaaatc tggtccccta taatatgaac aggagcagtc    300

agaaatatac aaagggttaa atagggtaaa gacttggcca agaaaggaaa ggccttagtt    360

ctaccataga gtatcttctc taattaaaat gacgggaaat atatggaagc agaaaccagc    420

acaaagcact acccatctag aaataatctt tcagttaaaa aacaactctc aaaaccagca    480

ctcatttctc taagataggt tataagtatt ttacgatttc tgtgttatat taacatctgg    540

ttaaaggta                                                             549
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<210>   70
<211>   774
<212>   DNA
<213>   Homo sapien

<400>   70
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taaaaacata taaattcagg tcaggctata ttaaaataca cacataccct tctttgcaaa    120

attattaaag gttgaattaa acagatgctt taaataaaat aaagtactct tgaggacatt    180
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tttgtcagat taactataac agtgtagtgt agtttttaaa attgcagttg aaaagtttag   240

ctgtcttgga agtcaaattt atccaattgt tcagacttct gttactactt aatatgaagc   300

caccatgctg gcttggacag aattaatttc attcatgtta tggagaattc tatattacaa   360

atctggtccc ctataatatg aacagtgagc agtcagaaat atacaaaggg ttaaataggg   420

taaagacttt ggccaagaaa ggaaaggcct tagttctacc atagagtatc ttctctaatt   480.

aaaatgactg ggaaatatat ggaagcagaa accagcacaa agcactaccc atctagaaat   540

aatctttcag ttaaaaaaca actctcaaaa ccagcactca tttctctaag ataggttata   600

agtattttac gatttcttgt tatattaaat tgagttaaag gtactgacaa gtcaatatgc   660

aaatgggttt aaacactaat ttgatttctc ttctgactag ctctggagag ctgtgacatc   720

tggatgttgg tgcccagttg gtgtggagtg tgtagttttg ttatgaaagt tctc         774
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<210>   71
<211>   881
<212>   DNA
<213>   Homo sapien

<220>
<221>   misc_feature
<222>   (601)..(601)
<223>   a, c, g or t


<400>   71
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ggtgatattt tccatatcta tgtatatgtg tgggatgtga atatatttct ttttctttcc   120

gttgcttctg gctaaacgtt gagacctcat gatacttcac ccccatatat atcagcatgt   180

atctcccagg atgaagaata ctcttccatg aaatcataat acaattatca cagtaaacat   240

gtttcaacac aactatctaa gttagggtct atattaaaaa ctcctcagtt atcatactaa   300

tgcccacatg tttctccatt tgttgatcat cccatcatga ttagattaag tagtttgtca   360

ggaatacaac ataggtgaag ttgtatcctc atgtatcaca tcaggagata ttctgtcacc   420

cattataagt aatattaact ttaattactt gatatatggg ttttctgctg tgcaacaaat   480

taccacaaac tgagcatgta ttgcatgtga aacaacaccc ttgtagttct gtagattata   540

aatctggctg ggtttccctg ctcaagattt tacaaggcca aagtcaaggt cttggccggg   600

nctaggctct tacctggagg ctctggggaa gaatctgttt ccaaggctca ttcaggttgt   660

gaccgaattt agtttccttg tggcaggccc aggggctcac acctgtaaaa ccagcagttt   720

gggaggccga gggggggtgg atcacttgtg atcaggggtt tgggaccagc tggcaacatg   780
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62

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tggaatggtg ctcctctaaa ataccaaaat agccgggtgg gggagcgcgt atcacgatat      840

ccggggggggg ggggttgtg tacccctccc tcctaggagg g                         881


<210>  72
<211>  1735
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
<222>  (1024)..(1024)
<223>  a, c, g or t


<400>  72
atataatcct tagccagtct ataaaagatc tctggtctgc ataggcagta gcttggactg       60

tccattctaa tctaccccaa tagtttatct tatttacagt ttttatttat agtttctttt      120

acttagtagt tattacaata aataacatcg acccaataca actatctaag ataggggcct      180

tattcaaaat gccttttttac cagctaaaac tgtttaaata ttgctaacac ctgaaactat      240

agttcgaaca caggtattta tgggagcagg gaaaaaagaa caaaaaacag ttaacaagca      300

tattctgtaa aaattgttag gattttgttt tgcttaatac attttttaaaa aatgttcttc      360

ctcaattttt tactttgaac aatttcaaac ctacagaaaa gttgaatgaa ttagtacata      420

gaaaccccat ataccccttca cctagattca ccagtgttag cgcctggtga tattttccat      480

atctatgtat atgtgtggga tgtgaatata tttcttttttc tttccgtttg cttcttggct      540

aaactgtttg agacctcatg atacttcacc cccatatata tcagcatgta tctcccagga      600

tgaagaatac tcttccatga aatcataata caattatcac agtaaacatt gtttcaacac      660

aactatctaa gttagggtct atattaaaaa ctcctcagtt atcatactaa tgcccacatg      720

tttctccatt ttgtttggat ccatcccatc atggattagg attaatggta tttttgtcag      780

ggaatacaac ataggtgaag ttgtaatcct catggtatca catcaggaga tattctggtc      840

acccattata agtaatatta actttaatta cttgatatat gggttttctg ctgtgcaaca      900

aattaccaca aactgagcat gtattgcatg tgaaacaaca cccttgtagt tctgtagatt      960

ataaatctgg ctgggtttcc ctgctcaaga ttttacaagg ccaaagtcaa ggtcttggcc     1020

gggnctaggc tcttacctgg aggctctggg gaagaatctg tgtccaagct cattcagttg     1080

ctggcagaat ccagttcctt ggggttgtag gactgatgtc cccatttatt gctgaatatc     1140

cactgagggt tactctcagc tcctgtaagc tgcttttggg ttctttccac atggaccct      1200

ccatcttcaa agccaggaat ggaagatttc tctcatattg aatatcttct ctctgacttc     1260
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63

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tccttgtatt atcaactgga gaaaacactc tgcttttaaa gcattctcct cccaatgagt   1320

gggaaatccc ctccttcctt tctagcactg tttctgtgac tcctggagag gtgctcagga   1380

ggtagaccca tggcctgcat tcaccgctga agctgaaggc tgccttggcg aagacaggtt   1440

ttgtcaaagt agtggctgtg aatgtgacct tacgtaaaaa taaggtttct gcggatggta   1500

tcaagaagag gttatgagag ggcccttttat ccactgcgac tggtgccctt ataagaggaa   1560

aattttgacc cagaggcaca caaggagagc tccatgtgac aatagaggga cagattggag   1620

ggatgcagct gcaagcaaag gaacgccgag gattgacggc caccatcaga agcttggtgc   1680

aagacaccgt cctctcacct ggattattgc cgaagctgct aacttgtctc tccat         1735
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<210>  73
<211>  429
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
<222>  (231)..(231)
<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (245)..(246)
<223>  a, c, g or t


<400>  73
acttttttag tatttacctg ttacaaagga cattgtgttt cctgtcatgt aaaaccagct      60

attttagtta ctattgtact ctagaaaaga gctgtagatt tatgttaaac tcgtacttac     120

gaacaattgt aattagttct aaaaggcatg aactcagctc ctaatcgtca ctgtatagtc     180

ctgaatttgt agaactagag ttaattccct ttcttggaaa cttttccttt ntgtgtctct     240

caagnntagt tacttttttc cttacctaaa agggttgtct gtcacaacca agtctccctt     300

cgaaccatta acaacttttc ctggtgtatt cgacaacaaa aaaaacaaaa aacaaaaaaa     360

aaggctgggg gaacacaggg ccacaggggt ccccgggggg agaaactggg catacccggc     420

ctacaaaat                                                              429
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<210>  74
<211>  563
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
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<222> (49)..(49)
<223> a, c, g or t

<400> 74
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gatccgcccg ggcaggtctt attcatacac atttcacttg gcttttacc cctaggaaat   120

aattgtccaa gtatatatct cgtcttcttt cttgtaactt tgattaaact gcttacttca   180

acttacaaca ttgtaaagcc agaatacctc attttaacag tgaaaaaaaa tatgatgacc   240

tgatgtgttc tcttgtattt gatttgaact acctaaatag gcttaactgt aataataaat   300

atacaatttt ggcaggcatt tttccttg tttggatgaa cattttgtta ttggtccact   360

tctaattttg tcttaaagag ttataactca gtgtcaataa aacatcttgt tatattaagt   420

tattggcaaa aaaaaaccac aaacaaaaaa acaaaaaaaa cctttgggat tacccaagtg   480

gccatatact atttccctgt gtttctaaaa ttgtgtttct ctccgcttca acattttccc   540

acaaaaattt caccaacaaa agt   563

<210> 75
<211> 1775
<212> DNA
<213> Homo sapien

<400> 75
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gaaactttac ccttaattc aaatgatacc aaacagctca ttactacccc aagggacgct   120

ctccgtagct tctggattcc ccagtttcct tctagaaaca aggactccaa tagcactata   180

accctaaaca ggccctaacc cagaagaata caccacaaaa tgcgattgat tttctcaaaa   240

tatcacagtc ttagacacta tacaaataat tcaagaaat tctttctacc ctgcagtgga   300

tatagtattc tattatattc tccagcaaaa cttttaggac ttttcaaact catttctaag   360

ccaaatagtt tagataaata tttacccta tatttggggg gaattcaggc tcaccatttg   420

ccgaggcaag cccatcaaca gtctagaggc atattctgtg tcattccttc ccgtctcctt   480

catagaatac tacttttcc ttttgtctcc tggccattct ccatcatctg ctgattattg   540

ctaaccacag gatgctgggc aaagcttaca gtgataggca catgtgttca gtgatgtcca   600

atacactctt atcacagtgg ttattgcttc ttactctttt caaatgcatt attctacccc   660

tcaacctaca tccaatcatt agaactatac ctgactggag cccagaactt gggaccaata   720

cttaattcaa atagcagggg cttgctcaca acattaagc ccaaaaagaa gcacagcact   780

ttgaaaagtc aaataggcct ttggtagctc tgtacatttg caattttaca tttgttatta   840

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gtttatagca ctaataacac ttcagtcgtg aatctacagt ctcaatatga taagtcttag     900

aacatgttct agaaatagtg gtaccttgct gctattatac ttagtaactt ataccccaat     960

ataataataa gtattaaata cagattgtgt atgcattctt tgtgtgtata tgccaactgt    1020

actacttaac ctcactgatg agcaattaga aaaatacaca aattgtcata gtgaaaataa    1080

gtcttggtca attcagatga tacgtgaacc tgataaatgc tctaatagat atgctatttt    1140

gtcctgtatt gcttgtttta cagtatggtg catgttgttt gctaagtaaa atgataataa    1200

taataaagta taccaatttt aaggttagaa ttaaaatttt gcacatatgc ttcttgatat    1260

tctgaaatgt attctgtggc ttaattatct tattcataca catttcactt ggctttttac    1320

ccctaggaaa taattgtcca agtatatatc tcgtcttctt tcttgtaact ttgattaaac    1380

tgcttacttc aacttacaac attgtaaagc cagaatacct cattttaaca gtgaaaaaaa    1440

atatgatgac ctgatgtgtt ctcttgtatt tgatttgaac tacctaaata ggcttaactg    1500

taataataaa tatacaattt tggcaggcat ttttttccttt gtttggatga acattttgtt    1560

attggtccac ttctaatttt gtcttaaaga gttataaact cagtgtcaat aaaacatctt    1620

gttatattaa gttattggca aaaaaaaacc acaaacaaaa aaacaaaaaa aacctttggg    1680

attacccaag tggccatata ctatttccct gtgtttctaa aattgtgttt ctctccgctt    1740

caacattttc ccacaaaaat ttcaccaaca aaagt                               1775


<210>  76
<211>  511
<212>  DNA
<213>  Homo sapien

<400>  76
atgatatata tagcgaatgg cctctaatca tctcgagcgc gcatgtgatg gatccggcgc      60

cggcaggtac tgatctaacc aagatatttt gtttttctca tccaccagtc actttctcag     120

tcctttctgt atcccttgca aatttgaaca aagctttttt ttttttttt ttttttttt     180

tttatggcca aaatattttt ttttcccaa aatttattta attcccttttt tttctttttt     240

attggttaaa ataacttttg aaaaaatcgt tcttttgaaa aatatgaggt ccatattttt     300

acaacggcca cctttgaata tagttccaca gtttgccgcc aaaaatatcc tctctttaaa     360

acaaaggggg gtttctttgg aattgcccat attttttatct tgccaaaaaa aagctctgcg     420

agtatctcct tgtatatata gctgtgttcc tctgtgtgaa tttgtttttc cgtctacaca     480

tttcccacac aatcatcaaa gaaaaggata g                                    511
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<210>  77
<211>  646
<212>· DNA
<213>  Homo sapien

<400>  77
gggattacag gcatgagcca ctgcacccgg ccactttttt tttttaaaga aaaatgctct      60

gcatggattg gagacacagc aataactact gttgccatgg aagggttaac agtgtaggag     120

ctggtttatc agtccgcttt gacatacagc taaaggaaat ttatgtttgg gggaaaaagg     180

ccctctgttc actttaaaat tcagtgtgga cttatgccaa aggggctgt ttaagttgaa      240

agaagccaag ttaagtttgg cctcttgcct ggaatcactt gaattctgaa atttcactgc     300

gacggacatg tgccttgtca cattttccat tgcttaatcc tgaagttggg tgcaagtctc     360

tctgcaccta ttaaaaagtg atgtatatac ttccttctta ttctgttgag ttgtatagaa     420

tggtcttttg tatttaacac tttgtaattt tcacaatatt ttttaattta aataaataaa     480

cacttttttc cctcctgcga aaaaaaaaaa aaggctgggc gtatcgtggc aaagctgtgc     540

ctgggtgaat ggtttccgct ccatcccatc tcgcagcaaa aaaatgtgtc gaaaccgaag     600

acaaacaaac ggggagagac aaaaagacag aaagacaaat aactaa                    646
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```
<210>  78
<211>  493
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
<222>  (264)..(264)
<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (250)..(250)
<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (308)..(308)
<223>  a, c, g or t


<220>
<221>  misc_feature
<222>  (311)..(312)
<223>  a, c, g or t


<400>  78
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67

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ggtgatagtc  atatagggcg  atgggcctct  agatgctgct  cgagcggcgc  caggtgatgg       60

atcgaggtac  tgaataggaa  agggaagttt  tattggaacc  ttctaagagg  aaatcaacca      120

ggaccaaaga  gccttaaagg  acacacagca  atgcacggca  cttcccttcc  ccagctggct      180

gccctaggtg  atttctcaag  ctccttgggg  gactgtgttt  ctcatctgga  atcaatgtgt      240

gtatgagttn  tgtctggtag  gatngctgac  tctgtccaac  agatatcact  gtggaattga      300

ataaattngt  nngaaagaac  caaaaaaaaa  aacaaaaaaa  caaacaaaaa  ggcggggggt      360

aatcctgggg  cctaaggcgg  gttcccgggg  gtggaattgg  gtttccccgg  ccccacaatt      420

cccccaacaa  ctttcacggg  aagcaagttg  caacaaaagg  caaaagaaaa  aagaagaaaa      480

ggaaagagaa  aca                                                            493
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<210>  79
<211>  704
<212>  DNA
<213>  Homo sapien

<400>  79
cacttaggag  ttattagtgc  taaaaagggg  accgtgcaag  gcagcagagt  tacatggttc       60

ttcaaatcat  gtctgaacct  attcttggaa  tcttctctat  aataagggaa  gttctcttac      120

cccactgcca  catacctctg  ttttaaaaga  taagtccact  aactgtgagt  aaaaatgata      180

tatataggca  ttaaccacac  actttaatgg  gtataatttc  ctggctgcct  cccttcctca      240

gcccattagg  ttaaacacca  aagaaagact  ggtgtgtact  gaataggaaa  gggaagtttt      300

atttggaacc  ttctaagagg  aaatcaacca  ggaccaaaga  gccttaaagg  acacacagca      360

atgcacagcc  acttcccttc  cccagcttgg  ctgccctagg  tgatttctca  agctccttgg      420

gggactgttg  tttctcatct  ggaatcaatg  tgtgtatgag  ttttgtctgg  taggattgct      480

gactctgtcc  aacagatatc  actgtgaatt  gaataaattt  gttgaaagag  aaaaaaaaaa      540

aaaaaaaaaa  aaaaaaaaaa  aggcggggggg  taatcctggg  gcctaaggcg  ggttcccggg      600

ggtggaattg  ggtttccccg  gccccacaat  tccccccaaca  actttcacgg  gaagcaagtt      660

gcaacaaaag  gcaaaagaaa  aaagaagaaa  aggaaagaga  aaca                        704
```

```
<210>  80
<211>  455
<212>  DNA
<213>  Homo sapien

<400>  80
gatcgatata  taggcgactc  ggtcctctaa  tgctgctcga  gcggcgcagt  tgtgatggat       60

gcgcccgggc  aggtcggcga  gggaggaaga  agcgcggaga  gccgttaagt  ccatgccggt      120
```

```
gtggtggcgg cggcggagac tgcgggccgt agctgggttc tgcgagcata taggttgctg    180

tagataatgt tcttagctgt caatgtttaa aaatacttct gcttcgttac ctcaagtgtg    240

gcatgcagca ttttggaagg aaaattgaag acgtgttcaa gaaaacatga acagaagcaa    300

atgatgaaaa tgagcatttt acttgatgtt gatacatcac aataaattat ggagaaaaaa    360

aaaaaaaaaa aaaaaaaagc tttggggtaa ccttggccaa acttttttccc tgtgtgaatt    420

ttttttccgc tcaaattccc caaaaaattt gaaca                              455
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<210> 81
<211> 1756
<212> DNA
<213> Homo sapien

<400> 81
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atggctgatt tcaggcctgg gatagaaaat atagcagatg gacttggggt atggtctaac     60

aaatggcctg tgtcaaaagg acataggagc aaccttgaag ggacccccag tgacaaaaga    120

tgtaagcagg aggggggccat aaatcagggc ctggagttcg gtggcatcaa aagagttaga    180

gctaagtctg ggtgtcactg cgtaaagcgg aggccctggg gagtggacgc gttttcacgg    240

aggcatatta agtcgggaaa agacatagaa gcctgtggaa aagcgttaaa gccggtgcac    300

tcagcccccc ttcgcacccg cggaggggcg gggccgcgta ccggaagagg cggggccacc    360

ggagtgccta agagctgtct tccgatgtcg ctcttccttt cccgcgcgac cggtcgaggg    420

aggaagaagc gcgaagagcc gttagtcatg ccggtgtggt ggcggcggcg gagactgcgg    480

gcccgtagct gggctctgcg agcatatagg ttgctgtaga tgaatgttct tagctgtcat    540

gtttaaaaat acttctgctt cgttacctca agtgtggcat gcagcatttt ggaaggaaaa    600

ttgaagacgt gttcaagaaa acatgaacag aagcaaatga tgaaaatgag catttttactt    660

gatgttgata acatcacaat aaattatgga gaaaaataca tatttggcta acttttaatt    720

gctgaacaat aaagtgtttt cttttaaaaa aataacaaca gaacaaaaaa actcccgagg    780

aataagtctc ctcctctcct cttcccctcc ttttaaaaca ttggcgcata gaaaggcata    840

tgcagggact tataagggtg gaaaagacct cctctttagt gaatgtttgt ggttgcccaa    900

gtgaatagaa gtgtgtttcc cacggtgtgc aacaaaactc tagtgggcta catgggggg    960

gaccttggaa tgcacactgt aaagacctgg ggggtcaatg aaacgctttt ggtggcacac   1020

ggccatgtag ggccactatc tcacagaggt tgagcgcacg aaatgcgtgg ataccacat   1080

ctaacgcgat ctacccaagt gggtgccgtt gtgggaacac cggtttgtaa agcaacagag   1140

gggaactatg aaaaatcacg gagagagatt tttcccaata tataaaccac tgcggattaa   1200
```

```
acgcctataa aaggctgtaa gaacggcccc tataaggaga ggacacggcc agtcagaacc    1260

caaaacacgg gggggctcc tttaggacag gctgcgagac gaccacacac cacaagggtg      1320

tggccgaccc tcaaacggga aagggtagaa cccccagggg agggtcctcc ccaggccccc    1380

gggggaaaac acactacggt gggacgcatc tgagacagag gagactcgag ggaataaaac    1440

gcctcggcaa aagagaaaca cgtgtggcgg tcatagaacg agcccagtcg ccgacaaatt    1500

cgatgggtcg tcggccccgg tggggacaca ggagaagaaa taccccagac agatgagggg    1560

ttttatccaa aaggcgccat gtgtgcatca tcacgacgtg ggacagggga gaaagggggag   1620

tcacccaaaa gagtagggct gccaggtggg gccaagtcac tgcagaaagg gacccgggga    1680

tctgtgaaat tcgcgccacc tgttgcgacg agagagaatg agaagcggga tcatacggcc    1740

gacccatgag gaacct                                                    1756
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<210> 82
<211> 71
<212> PRT
<213> Homo sapien

<400> 82

```
Met Phe Asn Thr Ala Asn Gly Trp Leu Leu Val Asp Asp Ile Ile Ser
1               5                   10                  15


His His Gln Met Trp Val Trp Trp Gly Arg Gln Leu His Asp Gly Asp
            20                  25                  30


Lys Gln Ile Ala Ala Gly Gly Gly Arg Pro Ile Leu Tyr Leu Phe Glu
        35                  40                  45


Arg Arg Ala Cys Val Val Leu Cys Gly Asn Tyr Leu Arg Leu Leu Ala
    50                  55                  60


Cys Ser Pro Asn Asn Asn Ile
65                  70
```

<210> 83
<211> 16
<212> PRT
<213> Homo sapien

<400> 83

```
Met Ala Phe Cys Thr Gly Lys Leu Thr Leu Lys Gln Thr Leu Ser Ser
1               5                   10                  15
```

<210> 84
<211> 47
<212> PRT
<213> Homo sapien

<400> 84

Met Leu Gly Cys Phe Val Arg Ile Ile Val Val Val Ser Ser Leu Ser
1   5   10   15

Val Leu Arg Cys Gly Leu Gly Trp Val Glu Tyr Leu Gly Gly Arg Ile
            20   25   30

Val Arg Ala Gly Ile Thr Asn Phe His Asn Gln Gly Glu His Gly
        35   40   45

<210> 85
<211> 181
<212> PRT
<213> Homo sapien

<400> 85

Met Val Val Asp Pro Pro Arg Gly Gly Ser Leu Ser Phe Ser Gln Leu
1   5   10   15

Ser Gln Pro Thr Trp Phe Ser Ser Pro Leu Pro Ser Trp Gly Val Pro
            20   25   30

Arg Ala Pro Gln Ser Val Cys Ser Arg Cys Val Val Gly Lys Cys Val
        35   40   45

Ser Leu Pro Pro His Arg Pro Ser Ser His Pro His Lys His Met Gln
    50   55   60

Gln Arg Gln Glu His Lys Leu Val Pro Thr Gly Arg Pro Gly Arg Asn
65   70   75   80

Gly Arg Cys Glu Ala Arg Arg Asn His Met Gln Gly Thr Ala Ser Gln
            85   90   95

Ser Pro Thr Arg Ile Ala Ala Ser Asp Arg Thr Asp Glu Gln Arg Ile
            100   105   110

Ala Pro Pro His His Pro Pro Gly Pro Gln Gly Glu Ile Asn Thr Cys
        115   120   125

Gly Arg Ala Ala Ser Lys Gly Pro Thr Thr Lys Leu Gly Ala Glu Ser
    130   135   140

Gly Arg Thr Met Thr His Thr Glu Arg Arg Arg Pro Lys Gln His Leu
145   150   155   160

Ala Thr Asn Ala Gln Arg Pro Arg Leu His Arg His Pro Thr Cys Ile
                165   170   175

Arg Arg Met Ser Asp
            180

<210> 86
<211> 209
<212> PRT
<213> Homo sapien

<400> 86

Met Pro Ser Val Cys Ser Ala Cys Leu Val Gly Ser Cys Arg Ser Gly
1   5   10   15

Pro Ser Ala Leu Phe Leu Ser Ser Leu Leu Val Leu Val Cys Ser Phe
            20   25   30

Ser Cys Ser Pro Tyr Ser Ala Ala Arg Ala Arg Ala Ala Val Leu Arg
        35   40   45

Leu Ser Leu Arg Leu Val Arg Leu Pro Ala Ala Val Cys Cys Val Leu
    50   55   60

Phe Phe Arg Phe Ser Leu Leu Phe His Ser Leu Cys Trp Leu Leu Val
65   70   75   80

Ser His Pro Gly Leu Val Ser Ala His Gly Val Ala Cys Ala Phe Leu
            85   90   95

Leu Phe Pro Ala Val Gly Leu Ser Ser Leu Thr Leu Leu Leu Leu Phe
            100   105   110

Ala Val Ala Phe Arg Cys Ser Cys Ser Val Ser Ser Leu Ser Leu His
        115   120   125

Phe Trp Trp Ser Leu Leu Leu Leu Ser Gly Pro Ser Ser Val Phe Cys
    130   135   140

72

```
Phe Gly Leu Phe Ser Val Val Val Ala Leu Leu Ile Val Gly Cys Val
145             150             155             160


Leu Arg Leu Ser Leu Trp Leu Ala Leu Leu Val Arg Trp Gly Thr Phe
                165             170             175


Trp Gly Arg Gly Ile Pro Thr Phe Pro His Pro Gly Tyr Thr Leu Gly
            180             185             190


Pro Val Phe Pro His Ala Phe Phe Phe Phe Phe Phe Phe Phe Phe Asn
        195             200             205


Cys
```

```
<210>   87
<211>   29
<212>   PRT
<213>   Homo sapien

<400>   87

Met Arg Lys Trp Lys Ser Tyr Leu Gly Val Ile Thr Pro Asn Val Lys
1               5               10              15


Pro Glu Arg Gln Arg Tyr Thr His Leu Glu Gly Glu Glu
            20              25
```

```
<210>   88
<211>   78
<212>   PRT
<213>   Homo sapien

<400>   88

Met Arg Val Ser Ala Val Val Cys Glu Lys Met Trp Cys Leu Pro Pro
1               5               10              15


Arg Ala Thr Asn Ile Ser His Thr Gln Ile Tyr Arg Ala Gln Thr Asn
            20              25              30


Asn Gly Arg Arg Arg Ser Ser Arg Arg Thr Arg Ser Arg Ala Gly Glu
        35              40              45


Glu Lys Pro Gly Gln Thr Gly Asp Thr Gly Ser Asn Arg Arg Gly Val
    50              55              60


Arg Asp Arg Lys Lys Asp Gly Thr Arg Ala Thr Lys Ser Ala
```

<210> 89
<211> 61
<212> PRT
<213> Homo sapien

<400> 89

Met Pro Val Ile Leu Ala Leu Trp Glu Ala Lys Ala Asp Gly Ser Leu
1   5   10   15

Glu Pro Arg Ser Leu Arg Pro Ala Trp Ala Thr Trp Gln Asn Pro Ile
            20   25   30

Ser Thr Lys Asn Thr Lys Ser Arg Pro Gly Thr Val Val His Thr Cys
            35   40   45

Asn Pro Gly Ile Leu Gly Gly Arg Asp Arg Trp Ile Thr
        50   55   60

<210> 90
<211> 42
<212> PRT
<213> Homo sapien

<400> 90

Met Gly Ser Cys Ser Val Ala Gln Val Gly Val Met Trp His Asp Leu
1   5   10   15

Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser Cys Pro
            20   25   30

Ser Leu Leu Ser Ser Trp Asp Tyr Arg Arg
            35   40

<210> 91
<211> 52
<212> PRT
<213> Homo sapien

<400> 91

Met Leu Pro Ser Ser Gly Val Tyr Ile Ser Ala Leu Leu Leu Tyr Ile
1   5   10   15

Glu Leu Cys Thr Thr Asn Ile His Ser His Cys Val Asn Asn Pro Asn
            20   25   30

Ile Thr Lys Gly Phe Arg Pro Gly Gly Glu Trp Ala Phe Phe Arg Ser
        35   40   45

Pro Thr Asn Cys
    50

<210>   92
<211>   143
<212>   PRT
<213>   Homo sapien

<400>   92

Met Pro Leu Leu Pro Gly Ser Leu Ala Ser Phe Phe Ser Leu Thr Cys
1   5   10   15

Val Asp Leu Ser Leu Arg Leu Ser Ser Ser Leu Cys Pro Leu Ser Leu
        20   25   30

Pro Pro Cys Pro Pro Pro Ile Pro Val Pro Leu Ala Arg Pro Ser Leu
        35   40   45

Phe Phe Ala Ala Phe Ser Pro Leu Ser Ser Leu Ala Phe Arg Ser Pro
    50   55   60

Leu Ser Ser His Tyr Val Leu Leu Pro Asp Asp Arg Phe Arg Asp Val
65   70   75   80

Pro Ala Val Pro Arg Thr Ser Thr Pro Pro Phe Ser Thr Ala Ser Arg
            85   90   95

Leu Leu Arg Leu His Pro Thr Ser Lys Leu Arg Pro Tyr His Pro Pro
        100   105   110

Asn Thr Ala Pro Cys Cys Asn Thr Pro Ser His Leu Pro Ala His Ala
        115   120   125

Pro Val Pro Pro Ser Arg His Leu Pro Leu Ser Pro Leu Ala Ser
    130   135   140

<210>   93
<211>   83
<212>   PRT
<213>   Homo sapien

<400>   93

Met Lys Trp Gly Pro Lys Lys Arg Gly Ile Gln Glu Thr Ser Ser His
1   5   10   15

Thr Glu Arg Ser Pro Phe His Arg Arg Gly Gly Pro Val Gly Pro Pro
                20   25   30

Val Ala Gly Ala Val Val Ser Leu Asn Asn Thr His Pro Ser Arg Thr
            35   40   45

Asn Arg Leu Leu Ser Ile Ile Phe Pro Arg Pro Pro Pro Arg Gly
    50   55   60

Pro Leu Pro Pro Phe Gly Ala Pro Pro Pro Gln Ile Lys Lys Pro Ile
65   70   75   80

Pro Phe Phe

<210> 94
<211> 73
<212> PRT
<213> Homo sapien

<400> 94

Met Glu Leu Arg Pro Ser Leu Ser Gly Ile Lys Lys Ala Lys Val Pro
1   5   10   15

Pro Thr Pro Pro Pro Pro Tyr Glu Asn His Gln Ser His His Leu Gly
                20   25   30

Gly Asp Pro Lys His Leu Gly Pro Ile Leu Gln Val Lys Thr Ile Arg
            35   40   45

Arg Asn Val Trp Asp Thr Gln Asn Glu Ile Ala Asn Gly Arg Arg Asp
    50   55   60

Ala Pro Cys Gln Leu Cys Phe Ser Asp
65   70

<210> 95
<211> 37
<212> PRT
<213> Homo sapien

<400> 95

Met Ser Pro Leu Arg Tyr Leu Thr Arg Phe Gln Phe Ser Gly Gly Pro

76

| 1 | | | | 5 | | | | | 10 | | | | | 15 |

Val Arg Lys Gly Lys Gly Glu Lys Ser Asn Ile Asn Ser Val Leu Ala
            20   25   30

Gly Glu Leu Pro Ile
            35

<210> 96
<211> 151
<212> PRT
<213> Homo sapien

<400> 96

Met Phe Ser Cys Leu Gly Asn Gly Pro Arg Gly Phe Ala Pro Cys Ile
1   5   10   15

Trp Glu Gly Pro Leu Gly Cys Ser Leu Arg Ser Asp Ser Ala Trp Arg
            20   25   30

Leu Val Pro Arg Ser Ser Gly Pro Leu Val Cys Val Phe Phe Val Arg
            35   40   45

Ser Asn Gly Val Gln Thr Val Val Pro Val Gly Ile Arg Ala Ser Ile
      50   55   60

Ala Val Gly Val Ser Val Ala Leu Tyr Trp Arg Trp Leu Phe Ser Ala
65   70   75   80

Ser Val Leu Glu Cys Val Ile Leu Ala His Val Val Tyr Leu Leu Cys
                85   90   95

Pro Pro Leu Asp Arg Ser Leu Phe Cys Phe Glu Arg Met Ser Trp Thr
            100   105   110

Ser Leu Cys Phe Leu Val Arg Ala His Ser Asp Val Val Arg Leu Leu
            115   120   125

Leu Cys Phe Trp Met Gly Leu Leu Phe Trp Phe Val Gly Leu Met His
            130   135   140

Cys Gly Ile Cys Asn Gly Ser
145   150

<210> 97

```
<211>   60
<212>   PRT
<213>   Homo sapien

<400>   97

Met Ile Thr Thr Arg Glu His Ala Ser Glu Pro Leu Cys Asn Arg Pro
1               5                   10                  15


Arg Phe Thr Gly Ser Tyr Leu Gly Glu Ser Gly Leu Ser Arg Gly Ala
            20                  25                  30


Leu Leu Val Val Thr Pro Gln Val Thr Met Leu Glu Leu Trp Ser Pro
            35                  40                  45


His Tyr Ile Trp Cys Ser Ile Lys Tyr Gly Gly Leu
        50                  55                  60


<210>   98
<211>   59
<212>   PRT
<213>   Homo sapien

<400>   98

Met Trp Arg Arg Gly Ser Arg Ile Glu Arg Ile Asn Thr Ala Met Ile
1               5                   10                  15


Arg Leu Ile Thr Arg Val Cys Leu Ser Asp Phe Met Leu Phe Ala Cys
            20                  25                  30


Leu Val Thr Tyr Gln Phe Arg Arg Asn Gly Met Thr His Ala Leu Leu
            35                  40                  45


Ser Ser His His Ser Ile Arg Leu Thr His Ala
        50                  55


<210>   99
<211>   133
<212>   PRT
<213>   Homo sapien

<400>   99

Met Cys Asp Trp Glu Asn Ala Ser Gly Arg Ser Lys Cys Asp Arg Pro
1               5                   10                  15


Thr Ser Leu Arg Gln Leu Pro Ala Arg Arg Ile Leu Ala Arg Thr
            20                  25                  30
```

78

Val Pro Pro Gly Thr Met Ser His His Ala Phe Pro Thr Pro Leu Pro
        35   40   45

His Phe His His His Ala His Arg Ala Ala Thr Gly Asp His Thr Trp
    50   55   60

Arg Thr Trp Pro Tyr Phe Phe Cys Ile Glu Trp Glu Gln Arg Leu Leu
65   70   75   80

Leu Ser Pro Leu Gln Asp Phe Leu Arg Ala Ala Phe Asp Cys Ser Ser
            85   90   95

Phe Val Arg Cys Gly Val His Gln Pro Thr Ala Val Arg Gln Met Ser
            100   105   110

Arg Ala Pro Gly His Gly Thr Arg Arg Pro Pro Cys Ala Arg Val Pro
            115   120   125

Arg Pro Arg Pro Arg
        130

<210> 100
<211> 22
<212> PRT
<213> Homo sapien

<400> 100

Met Gln Asp Gln Ala Arg Thr Asn Lys Glu Gln Gln Thr Arg Thr Lys
1   5   10   15

Arg Ser Glu Gln Ala Ser
            20

<210> 101
<211> 52
<212> PRT
<213> Homo sapien

<400> 101

Met Phe Tyr Ile Lys Ser Met Leu Leu Leu Asp Glu Lys Asn Leu Lys
1   5   10   15

Lys Gln Lys Lys Lys Lys Lys Lys Lys Arg Leu Gly Glu Leu Gly
            20   25   30

Lys Gly Ala Pro Gly Gly Ile Gly Tyr Arg Ser Lys Ser Thr Lys Asn
        35   40   45

Arg Arg Lys Val
        50

<210> 102
<211> 80
<212> PRT
<213> Homo sapien

<400> 102

Met Phe Cys Gly Gly Val Cys Leu Ala Thr Pro Ser Arg Leu Trp Ile
1   5   10   15

Leu Pro Pro Thr Ser Ser Pro Ser Leu Leu Ser His Leu Gly Gly Gly
            20   25   30

Asp Ser Leu Ser Leu Val Trp Cys Val Met Pro Arg Leu Phe Cys Leu
        35   40   45

Ala Val His Thr Asp Ile Leu Arg Arg Arg Cys Phe Tyr Gly Gly Gly
        50   55   60

Arg Pro Thr Val Leu Leu Thr Pro Pro Leu Met Tyr Pro Ala Ala Asp
65   70   75   80

<210> 103
<211> 120
<212> PRT
<213> Homo sapien

<400> 103

Met Leu His Gln Phe Phe Val Ser Ala Lys Ile Phe Phe Val Trp Arg
1   5   10   15

Ile Leu Cys Gly Arg Gly Gly Tyr Thr His Phe Phe His Thr His Gly
            20   25   30

Gly Arg Thr His Ser Phe Cys Val Pro Ser Glu Val Tyr Arg Pro Pro
        35   40   45

Arg Thr Phe Leu Phe Val Arg Tyr Thr Arg Glu Ile Leu Tyr Val Cys
        50   55   60

Ser Leu Phe Ser His His Gly Ala Pro Gln Gly Glu Thr His Ser Trp

<div align="center">80</div>

65   70   75   80

Cys Leu His Ser Val Ser Ala Leu Ser Ser Cys Ser Arg Glu Lys Ser
                85   90   95

Arg Arg His Pro Thr Thr Arg Glu Trp Trp Leu His Ala Ile Glu Cys
                100   105   110

Val Phe Gln Ser Glu Ile Phe Leu
            115   120

<210>   104
<211>   28
<212>   PRT
<213>   Homo sapien

<400>   104

Met Arg Glu Ala Glu Ser Gly Phe Lys Gln Ile Gly Val Arg Gln Ala
1   5   10   15

Thr Leu Tyr Phe Ser Val Leu Ala Tyr Gln Cys Cys
            20   25

<210>   105
<211>   150
<212>   PRT
<213>   Homo sapien

<400>   105

Met Ser Gly Glu Leu Ser Asn Arg Phe Gln Gly Gly Lys Ala Phe Gly
1   5   10   15

Leu Leu Lys Ala Arg Gln Glu Arg Arg Leu Ala Glu Ile Asn Arg Glu
            20   25   30

Phe Leu Cys Asp Gln Lys Tyr Ser Asp Glu Glu Asn Leu Pro Glu Lys
            35   40   45

Leu Thr Ala Phe Lys Glu Lys Tyr Met Glu Phe Asp Leu Asn Asn Glu
        50   55   60

Gly Glu Ile Asp Leu Met Ser Leu Lys Arg Met Met Glu Lys Leu Gly
65   70   75   80

Val Pro Lys Thr His Leu Glu Met Lys Lys Met Ile Ser Glu Val Thr
                85   90   95

```
Gly Gly Val Ser Asp Thr Ile Ser Tyr Arg Asp Phe Val Asn Met Met
            100             105             110

Leu Gly Lys Arg Ser Ala Val Leu Lys Leu Val Met Met Phe Glu Gly
        115             120             125
                                                    '

Lys Ala Asn Glu Ser Ser Pro Lys Pro Val Gly Pro Pro Pro Glu Arg
        130             135             140

Asp Ile Ala Ser Leu Pro
145             150


<210>   106
<211>   61
<212>   PRT
<213>   Homo sapien

<400>   106

Met Ser Lys Ser Leu Ile Ser Gln Lys Arg Leu Lys Ile Tyr Cys Asp
1               5               10              15

Ser Met Thr Ser Tyr Pro Lys Asp Lys Asn Val His Lys Ile Ser His
            20              25              30

Ser Leu Asn Ile Cys Cys Tyr Phe His Ser Lys Met Ile Lys Ile Asn
        35              40              45

Phe Ile Leu Pro Pro Val Gln Lys Tyr Leu Lys His Lys
    50              55              60


<210>   107
<211>   32
<212>   PRT
<213>   Homo sapien

<400>   107

Met Gly Ser Asp Trp Gln Lys Leu Ile Ser Ser Gln Trp Glu Pro Thr
1               5               10              15

Glu Leu Ser Arg Val Pro Arg Lys Lys Thr Gly Ala Ile Ser Gln Ser
            20              25              30


<210>   108
<211>   638
<212>   PRT
```

<213>   Homo sapien

<400>   108

Met Pro Leu Pro Leu Leu Pro Met Asp Leu Lys Gly Glu Pro Gly Pro
1   5   10   15

Pro Gly Lys Pro Gly Pro Arg Gly Pro Pro Gly Pro Pro Gly Phe Pro   ,
            20   25   30

Gly Lys Pro Gly Met Gly Lys Pro Gly Leu His Gly Gln Pro Gly Pro
        35   40   45

Ala Gly Pro Pro Gly Phe Ser Arg Met Gly Lys Ala Gly Pro Pro Gly
    50   55   60

Leu Pro Gly Lys Val Gly Pro Pro Gly Gln Pro Gly Leu Arg Gly Glu
65   70   75   80

Pro Gly Ile Arg Gly Asp Gln Gly Leu Arg Gly Pro Pro Gly Pro Pro
            85   90   95

Gly Leu Pro Gly Pro Ser Gly Ile Thr Ile Pro Gly Lys Pro Gly Ala
            100   105   110

Gln Gly Val Pro Gly Pro Pro Gly Phe Gln Gly Glu Pro Gly Pro Gln
        115   120   125

Gly Glu Pro Gly Pro Pro Gly Asp Arg Gly Leu Lys Gly Asp Asn Gly
    130   135   140

Val Gly Gln Pro Gly Leu Pro Gly Ala Pro Gly Gln Gly Gly Ala Pro
145   150   155   160

Gly Pro Pro Gly Leu Pro Gly Pro Ala Gly Leu Gly Lys Pro Gly Leu
            165   170   175

Asp Gly Leu Pro Gly Ala Pro Gly Asp Lys Gly Glu Ser Gly Pro Pro
            180   185   190

Gly Val Pro Gly Pro Arg Gly Glu Pro Gly Ala Val Gly Pro Lys Gly
        195   200   205

Pro Pro Gly Val Asp Gly Val Gly Val Pro Gly Ala Ala Gly Leu Pro
    210   215   220

```
Gly Pro Gln Gly Pro Ser Gly Ala Lys Gly Glu Pro Gly Thr Arg Gly
225             230             235             240


Pro Pro Gly Leu Ile Gly Pro Thr Gly Tyr Gly Met Pro Gly Leu Pro
            245             250             255


Gly Pro Lys Gly Asp Arg Gly Pro Ala Gly Val Pro Gly Leu Leu Gly
            260             265             270


Asp Arg Gly Glu Pro Gly Glu Asp Gly Asp Pro Gly Glu Gln Gly Pro
            275             280             285


Gln Gly Leu Gly Gly Pro Pro Gly Leu Pro Gly Ser Ala Gly Leu Pro
            290             295             300


Gly Arg Arg Gly Pro Pro Gly Pro Lys Gly Glu Ala Gly Pro Gly Gly
305             310             315             320


Pro Pro Gly Val Pro Gly Ile Arg Gly Asp Gln Gly Pro Ser Gly Leu
            325             330             335


Ala Gly Lys Pro Gly Val Pro Gly Glu Arg Gly Leu Pro Gly Ala His
            340             345             350


Gly Pro Pro Gly Pro Thr Gly Pro Lys Gly Glu Pro Gly Phe Thr Gly
            355             360             365


Arg Pro Gly Gly Pro Gly Val Ala Gly Ala Leu Gly Gln Lys Gly Asp
370             375             380


Leu Gly Leu Pro Gly Gln Pro Gly Leu Arg Gly Pro Ser Gly Ile Pro
385             390             395             400


Gly Leu Gln Gly Pro Ala Gly Pro Ile Gly Pro Gln Gly Leu Pro Gly
            405             410             415


Leu Lys Gly Glu Pro Gly Leu Pro Gly Pro Pro Gly Glu Gly Arg Ala
            420             425             430


Gly Glu Pro Gly Thr Ala Gly Pro Thr Gly Pro Pro Gly Val Pro Gly
            435             440             445


Ser Pro Gly Ile Thr Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
            450             455             460
```

```
Pro Gly Ala Pro Gly Ala Phe Asp Glu Thr Gly Ile Ala Gly Leu His
465             470             475             480

Leu Pro Asn Gly Gly Val Glu Gly Ala Val Leu Gly Lys Gly Gly Lys
            485             490             495

Pro Gln Phe Gly Leu Gly Glu Leu Ser Ala His Ala Thr Pro Ala Phe
        500             505             510

Thr Ala Val Leu Thr Ser Pro Phe Pro Ala Ser Gly Met Pro Val Lys
    515             520             525

Phe Asp Arg Thr Leu Tyr Asn Gly His Ser Gly Tyr Asn Pro Ala Thr
    530             535             540

Gly Ile Phe Thr Cys Pro Val Gly Gly Val Tyr Tyr Phe Ala Tyr His
545             550             555             560

Val His Val Lys Gly Thr Asn Val Trp Val Ala Leu Tyr Lys Asn Asn
            565             570             575

Val Pro Ala Thr Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly Tyr Leu Asp
            580             585             590

Gln Ala Ser Gly Gly Ala Val Leu Gln Leu Arg Pro Asn Asp Gln Val
        595             600             605

Trp Val Gln Met Pro Ser Asp Gln Ala Asn Gly Leu Tyr Ser Thr Glu
    610             615             620

Tyr Ile His Ser Ser Phe Ser Gly Phe Leu Leu Cys Pro Thr
625             630             635
```

```
<210> 109
<211> 78
<212> PRT
<213> Homo sapien

<400> 109
```

```
Met Thr Ser Leu Leu Ser Leu Ile Pro Asn Met Gln Val Phe Asn Cys
1               5               10              15

Leu Met Arg Val Glu Trp Ser Tyr Val Ser Leu Leu Phe Gly Leu Thr
            20              25              30
```

```
Lys Ile Asn His Asn Phe Gln Gly Ile Phe Met Gly Cys Asp Trp Lys
         35              40              45

Leu Thr Leu Val Leu Arg Leu Ile Leu Tyr Asp Val Glu Lys Ser Ser
     50              55              60

Asn Phe Ser Glu Leu Phe Leu Ile Ser Asn Thr Val Ile Thr
65              70              75
```

```
<210> 110
<211> 19
<212> PRT
<213> Homo sapien

<400> 110
```

```
Met Gly Arg Glu Arg Met Leu Ile Phe Lys Phe Leu Ser Leu Val Lys
1               5               10              15

Phe Cys Ile
```

```
<210> 111
<211> 36
<212> PRT
<213> Homo sapien

<400> 111
```

```
Met Thr Lys Ser His Lys Lys Ser Thr Arg Ser Pro Leu Cys Ala Trp
1           5               10              15

Leu Leu Phe Lys Lys Lys Lys Asn Pro Val Tyr Leu Trp Thr His Ser
         20              25              30

Met Arg Thr Met
         35
```

```
<210> 112
<211> 36
<212> PRT
<213> Homo sapien

<400> 112
```

```
Met Gln Met Pro Asn Asn Pro Cys Met Ala Asn Met Phe Thr Leu Ser
1               5               10              15
```

Leu Met Asn Thr Met Arg Thr Val Ser Cys Thr Val His Arg His Ser
            20   25   30

Pro Ser His Asp
        35

<210> 113
<211> 66
<212> PRT
<213> Homo sapien

<400> 113

Met Trp Val Thr Met Gln Met Phe Met Asn Asn Phe Thr Glu Val Ile
1   5   10   15

Pro Ser Val Phe Cys Ser Asn Thr Trp Arg Met Thr Phe Ile Phe Ile
            20   25   30

Tyr Phe Ile Ser Leu Phe Gln Leu Ser Ser Asp Asn Ser Gly Asn Val
            35   40   45

Ser Phe Phe Phe Phe Phe Thr Lys Thr Phe Tyr Cys Val Thr Cys Cys
        50   55   60

Ile Met
65

<210> 114
<211> 101
<212> PRT
<213> Homo sapien

<400> 114

Leu Phe Tyr Leu Arg Arg Gly Phe Ala Leu Ser Pro Ser Leu Asp Phe
1   5   10   15

Ser Gly Thr Ile Leu Ala Tyr Cys Asn Leu His Leu Leu Gly Ala Asn
            20   25   30

Asn Pro Pro Thr Ser Val Ser Ala Val Ala Gly Thr Thr Gly Thr Cys
            35   40   45

His His Ala Gln Leu Ile Phe Ile Phe Leu Leu Glu Thr Glu Phe His
        50   55   60

Tyr Val Ala Gln Val Gly Leu Lys Ile Pro Ser Ser Ser Asp Val Pro

87

65   70   75   80

Thr Leu Ala Ser Gln Ser Ala Arg Thr Thr Gly Met Ser His Cys Ala
                85   90   95

Gln Pro Ser Phe Phe
                100

<210> 115
<211> 48
<212> PRT
<213> Homo sapien

<400> 115

Met Asn His Leu Ile Ile Lys Tyr Leu Ala Asp Phe Gly Arg Gly Leu
1   5   10   15

Val Val Asp Asp Leu Thr Ser Ile Asn His Leu Ala Ala Pro Arg Ile
                20   25   30

His His Thr Ala Pro Leu Glu His Asp Leu Glu Ala His Ser Pro Ile
                35   40   45

<210> 116
<211> 53
<212> PRT
<213> Homo sapien

<400> 116

Met Asn Thr Ser Ser Arg Leu Val Ser Ile Ser Lys Arg Thr Ser Arg
1   5   10   15

Asn Ala Ser Ala Ala Val Cys Ala Trp Glu Ser Gln Arg Gly Asn Leu
                20   25   30

Pro Ser Pro Pro Ser Arg Ala Gly Gly Glu Gln Glu Asp Thr Leu Pro
                35   40   45

His Leu Gly Arg Asp
      50

<210> 117
<211> 41
<212> PRT
<213> Homo sapien

<400> 117

88

```
Met Asp Leu Ile Gln Ser Thr Ser Phe Cys Tyr Asn Ser Tyr Ile His
1               5               10              15

Thr Tyr Leu Ser Lys Leu Thr Leu Val His Arg His His Phe Thr Gly
            20              25              30

Pro Ser Ser Thr Leu Cys Val Ile His
        35              40
```

```
<210>    118
<211>    88
<212>    PRT
<213>    Homo sapien

<400>    118
```

```
Met Cys Ile Asn Leu Asn Asn Thr Gln Lys Asn Tyr Asn Leu Lys Ile
1               5               10              15

Ala Val Phe Asn Met Arg Ile Ile Tyr Val Cys Lys Tyr Ser Thr Lys
            20              25              30

Lys Asn Gln Lys Cys Gly Ile Ile Leu Gln Glu Lys Ile Phe Lys Met
            35              40              45

Glu Ser Pro Phe Met Asn Val Leu Ile Leu Lys Ser Lys Val Met Phe
    50              55              60

Phe Tyr Asn Val Tyr Ile Ile Met Phe Thr Lys Ala Ile Lys Ser Phe
65              70              75              80

Gln Lys Val Leu Ile Leu Gln Ile
                85
```

```
<210>    119
<211>    25
<212>    PRT
<213>    Homo sapien

<400>    119
```

```
Met Thr Thr Cys Phe Thr Trp Ser Tyr Phe Ala Ile Trp Thr Ile Leu
1               5               10              15

Leu Ser Glu Leu Ile Leu His Thr Cys
            20              25
```

<210> 120
<211> 109
<212> PRT
<213> Homo sapien

<400> 120

Cys Phe Tyr Asp Leu Leu Gly Arg Pro Gly Pro Met Leu Ser Ala Gly
1   5   10   15

Leu Ile Phe Leu Phe Leu Phe Glu Thr Glu Ser Arg Ser Pro Ser Arg
            20   25   30

Leu Lys Cys Ser Gly Val Ile Ser Ala His Cys Asn Leu Cys Leu Pro
            35   40   45

Gly Ser His Glu Ser Ser Ala Ser Ala Ser Ala Val Ala Gly Thr Thr
        50   55   60

Gly Thr Cys His His Thr Gln Leu Ile Phe Val Phe Leu Val Glu Thr
65   70   75   80

Gly Phe His His Val Gly Gln Asp Gly Leu Glu Pro Leu Thr Gln Val
            85   90   95

Ile Ser Pro Pro Gln Leu Pro Lys Val Leu Gly Leu Gln
            100   105

<210> 121
<211> 66
<212> PRT
<213> Homo sapien

<400> 121

Met Ser Asn Val Ile Ile Met Leu Arg Thr Ser Arg Ser Phe Ser Ile
1   5   10   15

Leu Thr Gly Phe Ile His Ile Leu Leu Leu Tyr Ser Asn Ile Ala Leu
            20   25   30

Lys Val Leu Thr Val Ser Val Ala Lys Ser Ile Ile Ser Trp Thr Ile
            35   40   45

Leu Asn Gly Met Phe Thr Arg Pro Lys Met Lys Val Leu Lys Ser Tyr
        50   55   60

Leu Phe

65

<210> 122
<211> 41
<212> PRT
<213> Homo sapien

<400> 122

Met Pro Leu Leu Phe Lys Asn Cys Ala Val Ile Thr Val Leu Ile Leu
1   5   10   15

Val Tyr Leu Gly Ile Tyr Pro Ser Val Val Phe Ile Leu Ile Leu Ser
            20   25   30

Ile Thr Leu Arg Arg Ser Ser Ser Ile
            35   40

<210> 123
<211> 28
<212> PRT
<213> Homo sapien

<400> 123

Met Ser Ser Val Lys Asn Ser Lys Leu Leu Val Leu Pro Ile Pro Asn
1   5   10   15

Pro Tyr Leu Thr Gln Leu Ser Lys Met Phe Thr Ser
            20   25

<210> 124
<211> 58
<212> PRT
<213> Homo sapien

<400> 124

Met Leu Gly Asn Leu Gly Gly Lys Pro Asn Phe Pro Pro Gly Pro Val
1   5   10   15

Leu Ala Pro Gly Ser Pro Arg Leu Phe Leu Leu Leu Cys Val Gly Val
            20   25   30

Phe Phe Val Ser Lys Thr Leu Asp Asn Leu Phe Gln Ile Tyr Ser Lys
            35   40   45

Ile Leu Lys His Cys Ile Asn Ile Lys Val
        50   55

```
<210>   125
<211>   98
<212>   PRT
<213>   Homo sapien

<400>   125
```

```
Phe Leu Phe Leu Arg Gln Ser Phe Ala Leu Ala Thr Gln Ala Gly Val
1               5               10              15


Arg Trp Cys Asp Leu Gly Ser Pro Gln Pro Pro Pro Gly Leu Lys
            20              25              30


Arg Leu Ser Cys Leu Ser Pro Pro Ser Arg Trp Asp Tyr Arg Pro Gly
            35              40              45


Pro Pro His Pro Ala Asn Phe Ala Leu Pro Val Glu Met Gly Ser Leu
        50              55              60


His Val Gly Gln Ala Gly Leu Gln Pro Leu Thr Ser Ser Asp Pro Pro
65              70              75              80


Ala Pro Ala Ser Gln Ser Ala Gly Thr Thr Asp Val Ser His Trp Thr
                85              90              95


Arg Pro
```

```
<210>   126
<211>   45
<212>   PRT
<213>   Homo sapien

<400>   126
```

```
Met Lys Ile Cys Leu Lys Phe Asn Trp Asn His Gly Ile Ser His Gln
1               5               10              15


Phe Glu Leu Ser Asn Met Pro Asn Leu Asp Ile Leu Ile Leu Glu Asn
            20              25              30


Gln Phe Leu Lys Ile Leu Lys Cys Ser Val Phe Arg Thr
            35              40              45
```

```
<210>   127
<211>   1088
<212>   PRT
<213>   Homo sapien
```

<400> 127

Asp Asp Ser Leu Ile Ser Ser Ala Thr Ala Ile Met Glu Ala Val Val
1   5   10   15

Arg Glu Trp Ile Leu Leu Glu Lys Gly Ser Ile Glu Ser Leu Arg Thr
            20   25   30

Phe Leu Leu Thr Tyr Val Leu Gln Arg Pro Asn Leu Gln Lys Tyr Val
        35   40   45

Arg Glu Gln Ile Leu Leu Ala Val Ala Val Ile Val Lys Arg Gly Ser
    50   55   60

Leu Asp Lys Ser Ile Asp Cys Lys Ser Ile Phe His Glu Val Ser Gln
65   70   75   80

Leu Ile Ser Ser Gly Asn Pro Thr Val Gln Thr Leu Ala Cys Ser Ile
                85   90   95

Leu Thr Ala Leu Leu Ser Glu Phe Ser Ser Ser Ser Lys Thr Ser Asn
            100   105   110

Ile Gly Leu Ser Met Glu Phe His Gly Asn Cys Lys Arg Val Phe Gln
        115   120   125

Glu Glu Asp Leu Arg Gln Ile Phe Met Leu Thr Val Glu Val Leu Gln
    130   135   140

Glu Phe Ser Arg Arg Glu Asn Leu Asn Ala Gln Met Ser Ser Val Phe
145   150   155   160

Gln Arg Tyr Leu Ala Leu Ala Asn Gln Val Leu Ser Trp Asn Phe Leu
            165   170   175

Pro Pro Asn Leu Gly Arg His Tyr Ile Ala Met Phe Glu Ser Ser Gln
            180   185   190

Asn Val Leu Leu Lys Pro Thr Glu Ser Leu Arg Glu Thr Leu Leu Asp
        195   200   205

Ser Arg Val Met Glu Leu Phe Phe Thr Val His Arg Lys Ile Arg Glu
    210   215   220

93

```
His Ser Asp Met Ala Gln Asp Ser Leu Gln Cys Leu Ala Gln Leu Ala
225             230             235             240

Ser Leu His Gly Pro Ile Phe Pro Asp Glu Gly Ser Gln Val Asp Tyr
            245             250             255

Leu Ala His Phe Ile Glu Gly Leu Leu Asn Thr Ile Asn Gly Ile Glu
            260             265             270

Ile Glu Asp Ser Glu Ala Val Gly Ile Ser Ser Ile Ile Ser Asn Leu
            275             280             285

Ile Thr Val Phe Pro Arg Asn Val Leu Thr Ala Ile Pro Ser Glu Leu
    290             295             300

Phe Ser Ser Phe Val Asn Cys Leu Thr His Leu Thr Cys Ser Phe Gly
305             310             315             320

Arg Ser Ala Ala Leu Glu Glu Val Leu Asp Lys Asp Asp Met Val Tyr
            325             330             335

Met Glu Ala Tyr Asp Lys Leu Leu Glu Ser Trp Leu Thr Leu Val Gln
            340             345             350

Asp Asp Lys His Phe His Lys Gly Phe Phe Thr Gln His Ala Val Gln
            355             360             365

Val Phe Asn Ser Tyr Ile Gln Cys His Leu Ala Ala Pro Asp Gly Thr
    370             375             380

Arg Asn Leu Thr Ala Asn Gly Val Ala Ser Arg Glu Glu Glu Glu Ile
385             390             395             400

Ser Glu Leu Gln Glu Asp Asp Arg Asp Gln Phe Ser Asp Gln Leu Ala
            405             410             415

Ser Val Gly Met Leu Gly Arg Ile Ala Ala Glu His Cys Ile Pro Leu
            420             425             430

Leu Thr Ser Leu Leu Glu Glu Arg Val Thr Arg Leu His Gly Gln Leu
            435             440             445

Gln Arg His Gln Gln Gln Leu Leu Ala Ser Pro Gly Ser Ser Thr Val
            450             455             460
```

Asp Asn Lys Met Leu Asp Asp Leu Tyr Glu Asp Ile His Trp Leu Ile
465   470   475   480

Leu Val Thr Gly Tyr Leu Leu Ala Asp Asp Thr Gln Gly Glu Thr Pro
                485   490   495

Leu Ile Pro Pro Glu Ile Met Glu Tyr Ser Ile Lys His Ser Ser Glu
            500   505   510

Val Asp Ile Asn Thr Thr Leu Gln Ile Leu Gly Ser Pro Gly Glu Lys
        515   520   525

Ala Ser Ser Ile Pro Gly Tyr Asn Arg Thr Asp Ser Val Ile Arg Leu
    530   535   540

Leu Ser Ala Ile Leu Arg Val Ser Glu Val Glu Ser Arg Ala Ile Arg
545   550   555   560

Ala Asp Leu Thr His Leu Leu Ser Pro Gln Met Gly Lys Asp Ile Val
            565   570   575

Trp Phe Leu Lys Arg Trp Ala Lys Thr Tyr Leu Leu Val Asp Glu Lys
        580   585   590

Leu Tyr Asp Gln Ile Ser Leu Pro Phe Ser Thr Ala Phe Gly Ala Asp
        595   600   605

Thr Glu Gly Ser Gln Trp Ile Ile Gly Tyr Leu Leu Gln Lys Val Ile
    610   615   620

Ser Asn Leu Ser Val Trp Ser Ser Glu Gln Asp Leu Ala Asn Asp Thr
625   630   635   640

Val Gln Leu Leu Val Thr Leu Val Glu Arg Arg Glu Arg Ala Asn Leu
            645   650   655

Val Ile Gln Cys Glu Asn Trp Trp Asn Leu Ala Lys Gln Phe Ala Ser
            660   665   670

Arg Ser Pro Pro Leu Asn Phe Leu Ser Ser Pro Val Gln Arg Thr Leu
    675   680   685

Met Lys Ala Leu Val Leu Gly Gly Phe Ala His Met Asp Thr Glu Thr
    690   695   700

Lys Gln Gln Tyr Trp Thr Glu Val Leu Gln Pro Leu Gln Gln Arg Phe
705   710   715   720

Leu Arg Val Ile Asn Gln Glu Asn Phe Gln Gln Met Cys Gln Gln Glu
            725   730   735

Glu Val Lys Gln Glu Ile Thr Ala Thr Leu Glu Ala Leu Cys Gly Ile
        740   745   750

Ala Glu Ala Thr Gln Ile Asp Asn Val Ala Ile Leu Phe Asn Phe Leu
    755   760   765

Met Asp Phe Leu Thr Asn Cys Ile Gly Leu Met Glu Val Tyr Lys Asn
    770   775   780

Thr Pro Glu Thr Val Asn Leu Ile Ile Glu Val Phe Val Glu Val Ala
785   790   795   800

His Lys Gln Ile Cys Tyr Leu Gly Glu Ser Lys Ala Met Asn Leu Tyr
            805   810   815

Glu Ala Cys Leu Thr Leu Leu Gln Val Tyr Ser Lys Asn Asn Leu Gly
        820   825   830

Arg Gln Arg Ile Asp Val Thr Ala Glu Glu Glu Gln Tyr Gln Asp Leu
        835   840   845

Leu Leu Ile Met Glu Leu Leu Thr Asn Leu Leu Ser Lys Glu Phe Ile
    850   855   860

Asp Phe Ser Asp Thr Asp Glu Val Phe Arg Gly His Glu Pro Gly Gln
865   870   875   880

Ala Ala Asn Arg Ser Val Ser Ala Ala Asp Val Val Leu Tyr Gly Val
            885   890   895

Asn Leu Ile Leu Pro Leu Met Ser Gln Asp Leu Leu Lys Phe Pro Thr
        900   905   910

Leu Cys Asn Gln Tyr Tyr Lys Leu Ile Thr Phe Ile Cys Glu Ile Phe
    915   920   925

Pro Glu Lys Ile Pro Gln Leu Pro Glu Asp Leu Phe Lys Ser Leu Met

930   935   940

Tyr Ser Leu Glu Leu Gly Met Thr Ser Met Ser Ser Glu Val Cys Gln
945   950   955   960

Leu Cys Leu Glu Ala Leu Thr Pro Leu Ala Glu Gln Cys Ala Lys Ala
                965   970   975

Gln Glu Thr Asp Ser Pro Leu Phe Leu Ala Thr Arg His Phe Leu Lys
            980   985   990

Leu Val Phe Asp Met Leu Val Leu Gln Lys His Asn Thr Glu Met Thr
        995   1000   1005

Thr Ala Ala Gly Glu Ala Phe Tyr Thr Leu Val Cys Leu His Gln
    1010   1015   1020

Ala Glu Tyr Ser Glu Leu Val Glu Thr Leu Leu Ser Ser Gln Gln
    1025   1030   1035

Asp Pro Val Ile Tyr Gln Arg Leu Ala Asp Ala Phe Asn Lys Leu
    1040   1045   1050

Thr Ala Ser Ser Thr Pro Pro Thr Leu Asp Arg Lys Gln Lys Met
    1055   1060   1065

Ala Phe Leu Lys Ser Leu Glu Glu Phe Met Ala Asn Val Gly Gly
    1070   1075   1080

Leu Leu Cys Val Lys
    1085

<210> 128
<211> 33
<212> PRT
<213> Homo sapien

<400> 128

Met Glu Lys Tyr Phe Ser Gly Cys Arg Leu Glu Phe Asp Tyr Gln Ile
1   5   10   15

Asp Phe Cys Glu Leu His Phe Asn Ser Val Gln Asn Phe Leu Thr Ala
            20   25   30

Leu

```
<210>   129
<211>   154
<212>   PRT
<213>   Homo sapien

<400>   129

Met Val Ile Leu Ser Phe Lys His Gly Gly Ile Val Ala Tyr Arg Met
1               5                   10                  15


Ser Glu Pro Tyr Ala Ser Leu Leu Asp Ile Tyr Ile Gly Ser His Phe
            20                  25                  30


Ser Cys Ile Ile Tyr Trp Asp Val Phe Pro Ala Phe Ser Val Pro Ile
        35                  40                  45


Asn Asn Thr Gln Asn Thr His Thr Pro Asn Pro Gly Ala Glu Asn Thr
    50                  55                  60


Gly Ala Pro Thr Cys Pro Pro Gly Gly Asp Thr Val Arg Ser Pro Arg
65                  70                  75                  80


Leu Gln Asn Ser Pro Gln His Asn Tyr Arg Arg Arg Asn Arg Ala Thr
                85                  90                  95


Glu Tyr Arg His Arg Ala Thr Arg Asp Asp Phe Thr Pro Arg Pro Tyr
            100                 105                 110


Asp Ala His Gly Asn Thr Lys Thr Arg Arg Gly Asn His Ile Arg Thr
            115                 120                 125


Arg Glu Asn Gly Arg Trp Arg Pro Arg Ala Lys Pro Thr Lys Ser Thr
            130                 135                 140


Thr His Arg Thr Thr His Asn Ala Arg Pro
145                 150


<210>   130
<211>   37
<212>   PRT
<213>   Homo sapien

<400>   130

Met Phe Arg Leu Leu Leu Leu Leu Asn Met Lys Pro Pro Cys Trp Leu
1               5                   10                  15
```

Asp Arg Ile Asn Phe Ile His Val Met Glu Asn Ser Ile Leu Gln Ile
            20   25   30

Trp Ser Pro Ile Ile
        35

<210>   131
<211>   72
<212>   PRT
<213>   Homo sapien

<400>   131

Met Ile Ser Trp Lys Ser Ile Leu His Pro Gly Arg Tyr Met Leu Ile
1   5   10   15

Tyr Met Gly Val Lys Tyr His Glu Val Ser Thr Phe Ser Gln Lys Gln
            20   25   30

Arg Lys Glu Lys Glu Ile Tyr Ser His Pro Thr His Ile His Arg Tyr
        35   40   45

Gly Lys Tyr His Gln Ala Leu Thr Leu Val Asn Leu Gly Glu Gly Tyr
    50   55   60

Met Gly Phe Gln Cys Thr Ser Ala
65   70

<210>   132
<211>   43
<212>   PRT
<213>   Homo sapien

<400>   132

Met Pro Ser Phe Ser Pro Arg Gly Pro Leu Trp Pro Cys Val Pro Pro
1   5   10   15

Ala Phe Phe Phe Val Phe Cys Phe Phe Cys Cys Arg Ile His Gln Glu
            20   25   30

Lys Leu Leu Met Val Arg Arg Glu Thr Trp Leu
        35   40

<210>   133
<211>   61
<212>   PRT

<213> Homo sapien

<400> 133

Met Asp Pro Pro Gly Gln Val Leu Phe Ile His Ile Ser Leu Gly Phe
1   5   10   15

Leu Pro Leu Gly Asn Asn Cys Pro Ser Ile Tyr Leu Val Phe Phe Leu
            20   25   30

Val Thr Leu Ile Lys Leu Leu Thr Ser Thr Tyr Asn Ile Val Lys Pro
        35   40   45

Glu Tyr Leu Ile Leu Thr Val Lys Lys Asn Met Met Thr
    50   55   60

<210> 134
<211> 75
<212> PRT
<213> Homo sapien

<400> 134

Met Arg Ser Ile Phe Leu Gln Arg Pro Pro Leu Asn Ile Val Pro Gln
1   5   10   15

Phe Ala Ala Lys Asn Ile Leu Ser Leu Lys Gln Arg Gly Val Ser Leu
            20   25   30

Glu Leu Pro Ile Phe Leu Ser Cys Gln Lys Lys Ala Leu Arg Val Ser
        35   40   45

Pro Cys Ile Tyr Ser Cys Val Pro Leu Cys Glu Phe Val Phe Pro Ser
    50   55   60

Thr His Phe Pro His Asn His Gln Arg Lys Gly
65   70   75

<210> 135
<211> 74
<212> PRT
<213> Homo sapien

<400> 135

Met Glu Asn Val Thr Arg His Met Ser Val Ala Val Lys Phe Gln Asn
1   5   10   15

Ser Ser Asp Ser Arg Gln Glu Ala Lys Leu Asn Leu Ala Ser Phe Asn

100

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                    20                    25                    30


Leu Asn Ser Pro Leu Trp His Lys Ser Thr Leu Asn Phe Lys Val Asn
        35                    40                    45


Arg Gly Pro Phe Ser Pro Lys His Lys Phe Pro Leu Ala Val Cys Gln
    50                    55                    60


Ser Gly Leu Ile Asn Gln Leu Leu His Cys
65                    70
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<210>   136
<211>   31
<212>   PRT
<213>   Homo sapien

<400>   136

Met His Gly Thr Ser Leu Pro Gln Leu Ala Ala Leu Gly Asp Phe Ser
1                   5                   10                    15


Ser Ser Leu Gly Asp Cys Val Ser His Leu Glu Ser Met Cys Val
            20                    25                    30
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<210>   137
<211>   56
<212>   PRT
<213>   Homo sapien

<400>   137

Met Leu Ala Glu Pro Ser Tyr Gly Pro Gln Ser Pro Pro Pro Pro Pro
1                   5                   10                    15


His Arg His Gly Leu Asn Gly Ser Pro Arg Phe Phe Leu Pro Arg Arg
            20                    25                    30


Pro Ala Arg Ala His Pro Ser Gln Leu Arg Arg Ser Ser Ser Ile Arg
        35                    40                    45


Gly Pro Ser Arg Leu Tyr Ile Asp
    50                    55
```

1